# e Altining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES

No. 585 .--- Vol. XVI.]

LONDON: SATURDAY, NOVEMBER 7, 1846.

PRICE 6D.

Simularies of Cormwall—In the Tire-Estanten's Court.

PURSUANT to a DECREE of the VICE-WARDEN'S COURT, made in certain consolidated causes of JENNINGS AND ANOTHER e. STEPHENS.

TYACK AND OTHERS \* SAME.

THACK AND OTHERS \* SAME.

THACK AND ANOTHER \* SAME.

THACK AND ANOTHER \* SAME.

THACK AND ANOTHER \* SAME.

THE GLAZE MINE. In the parish of St. Minver, While the said Stannaries, are, on or before the 28th day of Kayember next, to come in a PROVE their DEBTS before the Registers of the said Court, at his office, in Truro; r, in default thereof, they will be perempterly excluded the bondit of the said Decree.

Dated Registrar's Office, Truro, Oct. 28, 1846.

Dates Registrar's Office, Trure, Oct. 28, 1846.

ORN WALL.—TO THE PROPRIETORS, PURSERS, and AGENTS of the several MINES within the BOUNDARIES bereinarder described the same being situate within the Dushy Manor of Tywarnhayle and Tywarnhayle Tyas, herein I claim to be the Proprietor of the Suchee, and a portion of the Dres and Metallic inerals.

In the proprietor of the Suchee, and a portion of the Dres and Metallic inerals.

Af you are not to remove or carry off, nor permit or suffer to be removed or carried, from any of the mines within the boundaries we reliander mentioned, any of the enise-heaves, holler-houses, account-houses, or any buildings whatoever, creeke for the process of mining; nor from any mine or mines that may be considered as abandoned inhibition of the process of mining; nor from any mine or mines attif, commonly known as halvans, containing metallic ores. The said boundaries are afolious:—The whole of the parishes of St. of Pive Burrows, in the parish of Konway; it has Kunway; it wheat Chance and Wheal or, commonly known as Treakerty Consols Mines, and Wheal North Downs, Mass Whene, in the parish of Rodrach.

Wheal Bosson, St. Agrica, Oct. 5, 1846.

No THE TINNERS OF PERRANZABULOE, ST. AGNES, AND THE NEIGHBOURING PARISHES.—A MEETING will be HELD on URSDAY, the Seft day of November next, by Four o'clock in the afternoon, at Pearce's 18. St. Agnes Church-Tewn, for the parapose of taking isto consideration the several IVILEGES GRANTED by various CHARTERS, from King Edward the First, and his cossors, which have not been repealed. It is, therefore, destrable, that the claims of labouring Themes should be protected, and the Charters re-established.

Ind. also, is taking into consideration the propriety of establishing a FUND for the LLEF of the DISABLED, INFIRM, and AGED.

WILLIAM HOSKINS, Privileged Tunner, parted Bencon, St. Agnes, Oct. 28, 1846.

con, St. Agnes, Oct. 28, 1846.

Noted Beacon, St. Agnes. Oct. 28, 1846.

O LABOURERS.—TENDERS will be RECEIVED by the undersigned for ProClosing SEVERAL RUNDERDS OF ACRES OF WASTEN NDS, situate in the parishes of St. Agnes and Parisanabulos, at as much per yard, of feet in length; the fences to be built, either with stone or turf.—Specifications and tracts may be seen on application to the undersigned.—Leases also will be grained on envires Commons, for 21 years, at the rate of its per acre. Preference will be given the inhabitants of St. Agnes.

On the Basson St. Agnes. Oct. 28, 1846. niracts may be seen en application to the undersigned.—Lea nonvrea Commons, for 21 years, at the rate of is, per acre, the inhabitants of St. Agnes. Dated Bescon, St. Agnes, Oct. 28, 1844.

MINING MACHINERY AND MATERIALS, on the OLD
WORKINGS of WHEAL FRANCO MINE...Mr. G. TRICKETT, Jun., has releived instructions to SELL, BY PUBLIC AUCTION, on Treesday, 10th of Nov. 1846,
ON THE OLD WORKINGS OF WHEAL FRANCO MINE,
itualed at HORRA-BRIDGE, near Taylebook, Devronality, all the

ON THE OLD WORKINGS OF WHEAL FRANCO MIRE,
unaled at HORRA-BRIDGE, near Twistock, Dwornairts, all the
MACHINERY AND MATERIALS
named with the same, consisting of One excellent WATER-WHEEL, 32-feet in diaster and 5-feet breast, exaction rings and sockets, with the pivots, saddles, and brasses.
One HORSE-WHIM, in good candition, with pulleys.
STAMES' WHEEL and FRANK, 14-feet in dismeter, and 2-feet breast.
STAMES' WHEEL and FRANK, 14-feet in dismeter, and 2-feet breast.
STAMES' WHEEL and FRANK, 14-feet in dismeter, and 2-feet breast.
STAMES' WHEEL and FRANK, 14-feet in dismeter, and 2-feet breast.
STAMES' WHEEL and FRANK, 14-feet in dismeter, and 2-feet breast.
Stamps' frame, for a heads, with saddles and brasses to fit.

10-inch planges-pole, with stock
11-feet withology, 16-feet in length
11-feet withology, 16-feet in length
12-feet breast.
12-feet in dismeter
13-feet in diameter
14-feet dismeter, and 2-feet breast.
15-feet in dismeter
15-feet in dismeter
16-feet dismeter, and 2-feet breast.
16-feet dismeter, and 2-feet breast.
17-feet dismeter, and 2-feet breast.
18-feet in dismeter
18-feet dismeter, and 2-feet breast.
19-feet brea

A Squite's-terrace, Union-road, Flymouth, Oct. 78, 1846.

VALUABLE AND EXTENSIVE FOUNDRY AND ENGINE WORK, at ALLOA, FOR SALE, the behaof of a sequestrated estant to 80LD, by PUREAC AUCTION, within the Waterloo Hotel, Edinburgh, on TUESDAT, to 17th day of Kowsmiee, 1846, at Two octock absermon, at the reduced upset price of 100C, and with immediate entry, the ALLOA FOUNDRY and STRAM-ENGINE IANUEAGTORY, with HARBOUR, containing ample accommodation, and every fact-ty for carrying on the business of irons founding, steam-engine making, and from steam-oat befilding, on an extensive scale. The premises cover hearly two acres of ground; to buildings are substantial, being constructed of stone within a few years. They are couliarly well-situated for supplies of iron and cod. The machinery, uccasis, and parriage and the supplies of iron and cod. The machinery, uccasis, and parriage instants and far further kindra and in excellent order.

A detailed description of the works (which are in operation) was inserted in this officially of 17th instants; and for further kindramston, application may be made to Mr. Brydle, and of 17th instants and far further kindramston, application may be made to Mr. Brydle, and on the Restate—Leith, Oct. 29, 1848.

RON-WORKS, WOLVERHAMPTON.—TO BE SOLD therwise Let), with immediate possession, the value of the town of WOLVERHAMFRON, known as the majoritant works occupy an area of — square yards to the Birmingham Canal, and have only been re-

IRONMASTERS .- BLOWING-ENGINE FOR SALE A CONDENSING-ENGINE, without boilers, capable of blowing four blateam cylinder, 482 inches diameter; blowing cylinder, 484 inches diameter working order; length of stroke, 8 ft.—metallic rings in steam-piston; intended at work, and can be removed at small expense, having been taken aparticles to a railway.—Apply to Mr. John Watt, C.E., 33, 5f. Enoch-squire, Gla

TO BE LET, the PARK-HILL MINES, DEAN FOREST GLOUGESTERSHIRE—containing ONE MILLION TONS OF COAL, and ONE LILLION TONS OF THE ROW ONE, which, being calcarcons, amelis well with argula yous tronstone, and may be delivered in large quantities to the Staffordishire, Shropshire and Websh fron-works, at a price far below the cost of local tronstones. The mines are trainable by level, and can be speced at a trailing expense; and, were blast-furnay exceed, their produce might be smelled on the spot into excellent fron.—Apply (and to the Henry H. Fryer, Esq., solicitor, Coleford, Gioucestershire.

O BE SOLD, OR LET, a very complete MILL and FORGE

O MINING ADVENTURERS.—TO BE DISPOSED OF, ONE-RALF of a COPPER MINE, of great promise, in the county of PEMBROKE, UTH WALES. Ore of good quality has been raised, nearly sufficient to cover the outfor the last two months from you level, which has only been commenced this year.—I particulars can be had on application; by letter, addressed "E. W.," care of the for of the Mining Journal, 26, Fleet-street, London.

SLATE BUARRY, NEAR CARNARVON, NORTH WALES.

R. GEGREE ROBINS is instructed to DISPOSE OF, BY
PRIVATE CONTRACT, a valuable SLATE QUARRY, in the most convenient
as really enthriting the produce to every part, and which is held under a lease
man, really included the produce to every part, and which is held under a lease
man, will the divartage of a rule or transpose, which goes through the lower part

MINE MATERIALS, -I. T. TREGELLAS, QUAY, TRURO

Best Scrap Chain, warranted
Kibulbs and Wayre Barries
Nails of all kinds
Sirker Lead, White Lead, and Red Lead

TO CAPITALISTS.—CARMARTHENSHIRE AND
GLAMORGANSHIRE, SOUTH WALES.—The AGENT of an extensive estate,
calls the attention of roomesters, Colliers, Manufacturers, Parmers, and Capitalists in calls the acteution of fronmasters, Colliers, Manufacturers, Farmers, and Capitalists in general, to this anneuncement—he is prepared to ENTER into ARRANGEMENTS will respectable PARTIES for the LEASING, on long torms, of VARIOUS DESCRIPTIONS of PROPERTY, now the object of public aftention—Anthractic and Biluminous Coal and Colin, Ironstene, Limestone, Marolis, Flag, and other quarries—Fire Cluy and Brick Earth, Land for erecting at, and near, infourthing and fast-rising commercial town), seaport, and finding deck, manufactories, shipbuilding yards, wharfs, store and dwelling houses; and, in the coal and iron districts, SITES for WORKS, joining a railroad and canal, leading, by their main trunks and branches to three seaports—water-power is almost general.—SITUATIONS for RURAL and MARINE, RESIDENCES in the most beautiful rearts of the country, commanding views of Swanses and Carmarthen Bays, and

ing the produce of their localities as cases are seen as the produce of their localities as the instruction the manufactured articles. This more particularly applies to those undertak where the consumption of coal forms a principal ingredient.

The South Wales Railway will pass through the town, touching the three seaports, going over a large proportion of the estate on the sea-coast; while the contemplated land railway will bring the collieries, irpostone, limestone, and stone quarries, within easy distance of the agricultural counties of Hereford and Worcester, and the great of railway communication, connecting Elmingham, Liverpool, Manchester, and all important manufacturing districts of England.

For further particularly apply to F. L. Brown, solicitor, Lianelly; John Williams, citor, 1, Verdam-buildings, Gray's Inn. London; Messra. Brooks and Green, es agents, 28, Old Sondistives, London; Mr. John Farram, extate agent, 29, Seel's-art Liverpool; Alfred Henderson, solicitors, Albien Chambers, Bristol; Messra. Horafold Harrison, solicitors, Leeds; and Mr. G. H. Belas, 66, Camden-street, Dublin.

MINING IN CARDIGANSHIRE, TO CAPITALISTS

KIRKCUDERIGHTSHIRE.—In consequence of MINERALS, of considerable velue, having been found on the ESTATES in which the GLENKENS MINES are situate an Act of Parliament has been obtained, to employ the trustees to GRANT MINERAL LEASES. Three mines are situated in the centre of a mineral country, and in the vicinity of the flourishing load works of Caraphairn, Lead Hills, the Newton Stewart, and

STEAM TO INDIA VIA EGYPT, MALTA, ITALY

ALEXANDRIA, AND THE PENINSULAR PORTS.

PASSAGE TO BOMBAY, MADRAS, AND CALCUTTA.

The Peninsular and Oriental Steam Navigation Company BOOK PASSENGERS
CEYLON, MADRAS, and CALCUTTA direct, by steamers leaving Southampton on a
50th, and for Alexandria, en roule to Bombay, on the 1st of every month
A steamer from Southampton leavas the 1st and 20th of every month for Malta, where
are steamers to Naples, Genos, Civeta Vocchia, three times a month.

STEAM TO CORUNNA, OPORTO, VIGO, LISBON, CADIZ, AND GIBRALTAB
A steamer leaves Southampton on the 7th, 17th, and 27th of every month.

Apply at the Feringular and Oriental Steam Navigation Company's offices, 51, St. Mar.

Acc, London, where only passages can be secured throughout.

STEAM COAL—WITHOUT SMOKE, as per experiments made at her Halesty's Dockyard, Woolwich.

CAMERON'S COALBROOK STEAM GOAL, AND SWANSEA AND LOUGHOR RAILWAY COMPANY.—(Completely Registered and Theorperated.)

OPPICES—2, MOORALTE-STREET, LONDON.

The directors are now prepared to supply seam ship companies, manufacturers, shippers, and others, with the company's steam coal, either at the company's wharf at Swansea, or in London. A statement, showing by comparative trial the superiority of this coal for steam purposes over every other, and a stale of prices, may be had on application at the company's officer here, or at their wharf at Swansea.—March 18, 1846.

TO ENGINEERS, BOILER AND TANK MAKERS, IRON SHIPBUILDERS, RAILWAY CONTRACTORS AND COMPANIES, &c.

A LEX. REID, 70, LOWER THAMES-STREET, LONDON, begs to inform the above parties, that he can SUPPLY BOLTS AND NUTS BOILER AND TANK RIVETS, PINS AND COTTERS, RAILWAY STREES, BOLTS AND TANK RIVETS, WROUGHT IRON-WORK AND CASTINGS, of every description, of best quality, and unsqualided workmanship, at lowest possible prigoners and quantity supplied, at a few days notice, from the manufactory at Smethwick, near Birmingham.—N.B. CONTRACTS TAKEN, and PRICES given for any DESCRIPTION OF IRON-WORK.

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, TRONNASTERS, AND OTHERS REQUIRING FINE GREASE for MACHINERY and AXLES of overy description.—JOSEPH PERCIVAL'S IMPROVED ANTI-FRICTION GREASE is—after trails on machinery and axis of every kind where constant friction is kept up—admitted to be the most useful, economical, and best pre-

MPORTANT TO ENGINEERS, MANUFACTURERS, RAILWAY AND STEAM-BOAT COMPANIES.

Mesers. W. & C. MATHER bog to call the attention of the ABOVE PARTIES to their IMPROVED ELASTIC METALLIC PISTONS.

mible SPACE, and is well add

MR. JOHN CHAPMAN, ACCOUNTANT, MINE AND GENERAL AGENT, 17, OLD BROAD-STREET, ROYAL EXCHANGE, turns his grateful thanks to his friends for life countomatics and support he has received in them since he commenced business. He bear leave to acquaint his friends, that he also undertakes the BUSINESS & ACCOUNTANT, in which branch he hopes to be additional favours from them.—Roy. 4, 1846.

MR. R. TREDINNICK wants to PURCHASE 1-70th SHARE in NORTH ROSKEAR, at 2500, and 1-94th SHARE in EAST WH. CROFFI 2775; and to SELL 1-99th SHARE in WHEAL SETON, at £850. Mining Offices, Three King's-court, Lombard-street, London.

MR. T. P. THOMAS, MINING AGENT, and DEALER in RAILWAY SHARES, ENGLISH and FOREIGN STOCK, REMOVED from 80, Old Broad-street, to 18, THREADNEEDLE-STREET, LONDON.—T. P. THOMAS is a BUYER of SHARES in North Roskear, Wheal Seton, Wheal Trelawary, West Wheal Jewel, and Wheal Mary Ann.

MESSRS. R. CLARK & CO. beg to acquaint their friends a the public in general, that they have taken OFFICES as below, where they tend to carry on BUSINESS as STOCK, SHARE, and MINING AGENTS: relying we confidence upon the method adopted by them for conducting all business entrusted their agency, Messrs. R. C. & Co. solicita continuance of that support it will be, by strict attention to all orders, their endeavour to deserve.

N.B.—Money advanced upon scrip and other securities.

3, Austintriars, Broad-street, Gct. 17, 1846.

MESSRS. J. PAINTER AND CO., SHAREBROKERS,
MINING AND GENERAL AGENTS.
25, CASTLE-STREET, LIVERPOOL,
AFFORD EVERY INFORMATION as to the STATE of the MARKETS, PRICES, &c.,
upon application.

MESSRS. LINTHORNE, JONES, AND CO., STOCK,

\*\*\* Every information will be afforded as to the markets and prices of the abore, by
application (post-paid) at these offices.

48, THREADNEEDLE-STREET, LONDON.

MR. RYE, MINING AND RAILWAY SHARE AGENT, 80, OLD BROAD-STREET, LONDON.

CHARLES T. CRAPP, SHARE AGENT

JOHN HARVEY, SHAREBROKER AND ASSAYER JAMES LANE, MINING SHAREBROKER 15, OLD BROAD-STREET, LONDON.

WILLIAM TRENERY, DEALER IN RAILWAY AND MINING SHARES.—ESTABLISHED TEN YEARS.

OFFICES, No. 50, THREADNEEDLE-STREET, LONDON.

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VILLIAM H. SMITH, MINING SHARE AGENT,
10, WARNFORD-COURT, THROGMORFON-STREET.
SHARES in many valuable MINE's FOR SALE, and every information will afforded, on application.

WILSON & FRASER, 2, WELLINGTON-BUILDINGS, LIVERPOOL, and IS, EXCHANGE-PLACE, GLASGOW, havealways ON SALE PIG-IRON, BAR-IRON, BAILWAY CHAIRS, and BAILWAY BARS.

WILLIAM FOX AND SON, No. 53, CASTLE-STREET, LIVERPOOL, have always on SALE PIG-IRON, RAILWAY BARS, CHARS, and IRON of every description.—TIN PLATES, WIRE, &c.

MINING OFFICES, No. 1, ST. MICHAEL'S-ALLEY,
CORNILL, LONDON.

Messrs. WATSON & CUELL have received instructions to FURCHASE SHARES in
East Tamar Comsols, South Tamar, Copiepo, Lest Rose, Alien, Stray Park, and Mary An
Mines; and have FOR SALE, SHARES in all the best DIVIDEND MINES in Coryand Devon, paying from 18 to 20 per cent. per annum.

MINING PROPERTY.—CAPITALISTS who are disposed to

WANTED, an AGENCY, in the MINING and MANUFAC
TURING DISTRICTS of SHROPSHIRE, for the SALE of OLL, MILL GREASH
TALLOW, HEMP, ROPING, &c.—Address "F. W.," Post-office, Dawley, Shifman

UNITED HILLS MINING COMPANY.—Notice is hereby given, that a SPECIAL GENERAL MEETING of the shareholders of this company will be HELD on Thursday, the 19th day of November heat, at the office of the combine propriety of raising further capital, for the better and more effectual working of the inner sof the said company, by increasing the number of shares—or of taking such other stops as may appear advisable for that object.

Dy order of the directors, October 26, 1846.

A JAHOTTIERE IRON-WORKS (Loire Inference Infer

TO IRONFOUNDERS—PIG-IRON.—F. A. TIDDEMAN PURFLEET WHARF, EARL-STREET, BLACKFRIARS, LONDON, has at all one a STOCK of PIG-IRON, of the BEST BRANDS, for DISPOSAL, at the lowest parties.—Delivery impediate, or at the convenience of his customers.

RON TRADE.—Any PARTY, with GOOD CAPITAL, wish ing to ENTER into the ABOVE TRADE, consisting of BLAST-FURNACES, and MINERAL FIELD adjoining, may bear of an opportunity by addressing (post-paid) H. C.," at Mr. Cureton's, 49, Bread-street, Chengaide.—None but principals meet

DATENT GALVANISED IRON WIRE ROPE WORKS'

MILLWALL, POPLAR.

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he has obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, producing a much superior article at a considerable saving in cost—the improved process for

processes. The rope is extensively used in di poses, and for ships' standing rigging. TO ENGINEERS, BOILER-MAKERS, AND OTHERS.

W. M. RICHARDSON, Jun., & CO., DARLASTON, STAFFORDSHIR NUFACTURE all DESCRIPTIONS of WELDED WROUGHT-110M-TU CAM, GAS, &c., of any required length and diameter, on the new and unequa-e of Mr. J. Rosso's recent invention (patented August, 1846).—Address as a NOTICE TO THE MANAGERS OF MINING COMPANIES

SMELTING WORKS, ac.

Bir. MITCHELL (late Mitchell and Fleid) bege to announce, that ASSAYS an ANALYSES of all descriptions of ORES, MINERALS, and FURNACE FRODUCTS, accordated at his LABORATORY, 29, HAWLEY-BOAD, RENTISH TOWN, to which direction all communications are to be addressed.

N.B.—Instruction in all branches of assaying and mineral analysis se usual.

## Original Correspondence.

FLOSIVE OR "GUN" COTTON.

Sir.,—The calculation of your correspondent, in your penaltimate Number, on the relative value of "gun cotton" and gunpowder, is futile and foolish, because deficient in the proper elements essential to the solution. I am not, however, concerned with this part of the question at present; but with the almost it credibly low inpersions at which the "gun cotton" explodes. Your correspondent says 140 Fahs, but he will be startled when I tell him, that the "gun cotton" will certainly explode at a temperature not exceeding 78° Fah., somewhat more than one-HALF of his estimate!—an astounding fact, and one which renders its employment exfremely precarious and dangerous, above all, to the sportsman: the temperature, which the gun acquires on its discharge, is quite sufficient to explode the "gun cotton," on the fowling-piece being immediately reloaded. Its safe employment in tropical countries is entirely out of the question—even the temperature of our own summers is more than enough. It has exploded by REFLECTED heat, and would, doubtless, flash in the sunbeam. I have repeatedly proved, by the test of the thermometer, the low temperature EXPLOSIVE OR "GEN" COTTON. exploded by REPLECTED heat, and would, doubtless, flash in the sunbeam. I have repeatedly proved, by the test of the thermometer, the low temperature at which the "gun cotton" will explode. I have not only shown this experiment publicly, but several times exploded it in my naked hand. I have also exploded it in contact with gunpowder, without the ignition of the latter, and have also exploded it on paper over the flame of a spirit lamp, resting on gunpowder, without the gunpowder heing ignited, or the paper being charred! I have felt it my duty to call the attention of the secretary of the General Post-office to the exceeding great danger of its transmission by post. In a future communication, I shall resume the subject of the "gun cotton."—J. MURRAX: Portland-place, Hull, Nov. 5.

QUN COTTON " APPLIED TO MINING PURPOSES. Sin,—I am sorry to trespass again upon your columns, but the strictures in your last Journal call for one or two remarks. To that date of my letter in your last Number, I never observed a greater strength attributed to gun cotton than twice that of powder, and upon that I founded my calculation. The question of economy is still open—for Mr. Richard Taylor states, the equivalent now at one-fourth the weight of powder: now 2s, 2d., divided by four, is equal to 6\frac{1}{2}d. per lb. against 4\frac{3}{2}d. for powder. I do not apprehend that the 2s. 2d. can be shaken, as the true calculation. I do not battle with the other characters, though I do feel sceptical as to the practicability of compressing the cotton, without interfering with its explosive powers. I am so far "interested," that it is an object to know which can be brought cheapest to the mines—cotton or powder.

Nov. 2.

FAUVELLE'S NEW SYSTEM OF BORING.

Sire,—Since my former communication to you, on the subject of Fau
velle's newly-invented boring apparatus, I have held correspondence with
some practical men, and also with some who have a deep interest in land
who think that its introduction into this country will prove a great na some practical men, and also with some who have a deep interest in land, who think that its introduction into this country will prove a great national advantage. Practical men concur in expressing the same opinion of its amazing power, as that Mr. Reed, of Newcastle-upon-Tyne, gives in his letter, which appears in your valuable Journal of the 24th ultimo. Landed proprietors are on the tiptoe of sanguine expectation. If the invention be what it professes to be—and this is a question which scientific men can easily solve—why, in this day of sober as well as rash speculation, does not some enterprising spirit undertake to introduce it into this country? Shall the field of labour be kept unoccupied, till some foreigner genes over to take possession of it? In some parts of Staffordshire, the old mines are nearly exhausted, and everywhere the rising value of coal is a proof that the demand is greater than the supply; and this fact will tempt landed proprietors to have their estates tested, where there is a probability of flading coal, when it can be done with certainty, and at a comparatively triffing expense. To induce some one-to make a beginning, I hereby certify, that as soon as an apparatus is provided, and terms are announced in your Journal, on which an experiment may be tried to the depth of 250 or 320 yards, I shall be glad to open a correspondence with the party,—and I have no doubt but my example will soon be followed by many others.—An Admiren of your Journal, of Reedy Col. 31.

THE GASES OF THE BLAST FURNACE.

Sir.—There is an extraordinary statement in your Journal of the 24th ult., which I hoped to have seen noticed in your last by some other pen than mine. Your correspondent, Mr. Mushet, attempts, by a chain of reasoning and calculation, to invalidate the fact, ascertained by the careful experiments of Messrs. Playfair and Bunsen, that no uncombined oxygen exists at a given distance above the tuyeres, and he arrives at the conclusion, that from 500 to 600 lbs. of free oxygen pass of at the top of the blast furnace. As Mr. Mushet does not give us his data, power of engine, rate of working, espacity of blowing cylinder, kind of blast (hot or cold), &c. &c., it is impossible to attempt to rectify his calculations; but surely the result ought to have awakened some suspicion of their correctmess. Is it possible to conceive that a stream of oxygen is constantly passing through an enormous mass of combustibles, 44 or 50 feet in height (the height and diameter are not given), heated for a considerable portion of the altitude, to an intense white heat, without suffering any change? The miscales of the Book of Daniel do not exceed this: as a cientific fact, it would be one leading to the most novel and incalculable discoveries,—and, in its applications, descring the attention of even Dr. Reid himself. It is certainly rash to advance this crude result of an uncertain calculation to overthrow the accuracy of the interesting experiments of Messrs. Playfair and Bunsen; nor, indeed, does Mr. Mushet seem at all aware of the magnitude or importance of the position he advances,—so light (or, as it were, touch-and-go) is the attention he affords to it.

But there must be altogether an error in his figures—for he states the proportions in the blast furnace to be—iron, 400; calcium, 74; aluminum, 51; silicon, 89—194 parts earthy base, to 400 parts of metallic iron, or 66 per cent. nearly for his working burden—a monstrous amount, more than double what we usually hear of in this country. The proportion

THE GASES OF THE BLAST FURNACE

THE THEORY OF VOLCANOES-CENTRAL HEAT. n.—In his letter on this subject, published in the Mining Journal, of they last, Mr. R. Mushet (of Coleford) attempts to prove that the earth nee been in a fluid state, from its shape being that of an oblate sphe-exactly that which a fluid body would assume, when rotating on its Now, Sir, if the earth was ever a fluid mans, is it likely that its comroid, exactly that which a fluid body would assume, when rotating on its axis. Now, Sir, if the earth was ever a fluid mass, is it likely that its component parts would ever have become stratified? and would it not have been a confused mass of mixed matter? He further informs us, that if a shall was sunk towards the centre of the earth, the increase of heat would be found to be 10° for every quarter of a mile in depth; and that, therefore, the heat at 300 miles depth would be sufficient to liquify any earthy matter whatsouver. Now, my humble opinion is, that the heat in our deepest mines arises from a very different cause to central heat; and I believe if it was possible to find a bollow tree as high as our deepest pit has been sunk, and no admission for air, except the hole at the top, I believe the bottom of that tree would be as warm as the bottom of the pit. "Alluding to volcances, he says, when the crust is thinnest they break out, and that this crust, if solid matter, is continually undergoing changes, slowly taking place, receiving additions in its thickness in some places, and getting blinger by fusion in others; we minors work beneath this crust, and I do not believe that any such effects have taken place, or it would have sorely deranged the strate of the coal measures—and I am convinced we have nothing to fear from fusion or crystallisation. Are not the real feeders of the cartil beneath the granite? What kind of material may be beneath the granite, is not yet ascertained; my belief is, that there are fountains of the earth beneath the granite? What kind of material may be beneath the granite, is not yet ascertained; my belief is, that there are fountains of the gas in a state of combustion, throws out with it stones, mud, sulphur, and writered the the strait afternoup which it passes is composed of, causeling and when the test and through which it passes is composed of, causeling and when the test and through which it passes is composed of, causeling and when the test and through which it passes is

of the antifunct, and the triemph obtained by the obtained by the observe and the time of the obtained by the

in ministure in cal-plus; a dreadful fire took place in a pit I was acquainted with—the timber englit fire, and that at fire to the body of the coal; four men lost their lives; and every few hours, as the gas secumulated, explosions ensued, which shoot the earth a long way round; part of the pit was at length filled with fine sand, when, as no air could get in, the fire was at last smothered out. I have known more than one similar case; and that at Bilston, recorded in your last Number, where some men and boys were met by the flame, is one; and is, in fact, the result of a volcano on a small scale. Truly, Mr. Editor, we colliers live and work in volcances.—T. Deaen: Blacenton, Nov. 2.

IMPROVED METHOD OF WORKING THE SOUTH WALES ANTHRACITE.

SIR,—From notices in the Mining Journal, I see that parties in Sunderland are bestirring themselves to reward Dr. Clanny for his devotion to the cause of attaining a most desirable object—the prevention of explosions of gas in coal workings. I was about the counties of Northumberland and Durham at the time of some of the most destructive explosions, and look a great interest in the sabject. When I came into the anthracite, or stone coal, district of South Wales, I expected to find the workings of such collieries quite free from inflammable gas, from the nature of the coal being nearly solid carbon without gas. I was, however, much surprised to find them very liable to explosions, and great difficulty in the ventilation. I was led to conclude, that the gas was chiefly carbonic oxide—a heavier gas, and, consequently, more difficult to remove by simple ventilation, than the light carburetted hydrogen of bituminous coal workings. I have suggested to some parties in this neighbourhood, who seem to have much difficulty in keeping their coal workings free from fire, sulphur, and other terms which they apply to it, that a very simple and effectual mode of getting it out of the pits; this has not been acted upon. There is always such a jealousy of interlopers, entertained by little minded people placed in authority, which often prevents the adoption of valuable suggestions. A circumstance which occurred last week, induces me to address this to you. There is a sin of omission, as well as of commission; and I regard a man guilty of the former, who, anagining that he can suggest anything likely to be a benefit, were it but the saving of a single life, neglects the opportunity which you so freely afford through the medium of your liberally-conducted Journal. While upon this subject, I will mention a lamp, which I thought of long ago, not as a common working lamp, but merely for surveys, or to use upon extraordinary occasions, which is to surround the flame, with a domble glass cylinder, having a space between to be kept ful SIR, - From notices in the Mining Journal, I see that parties in Sunderland are bestirring themselves to reward Dr. Clanny for his devotion to the

SAFETY URN FOR MINE EXPLOSIONS.

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Sir.,—The communication of "L" (Battersea), in your last Number, s merely the crambe repetita of an invention of mine, for consuming the fire damp" on the spot, without danger of explosion, and which I called a "safety urn." It is described in my work on "Flame and Safety Camps."—J. MURRAY: Portland-place, Hull, Nov. 4.

VELOCITY OF AIR ENTERING IN STEAM-ENGINES BOILERS. Sin,—Will you kindly allow me to inquire, if any of your ingenious corspondents can give any accurate information respecting an instrument, of the purpose of measuring the velocity, or quantity, of air, which enters he fire-place of the boiler of a steam-engine. Some notice of such an inrument appeared in the Mining Journal about 12 months since.—A. B. London, Nov. 6.

THE "GREAT BRITAIN"-MR. DE LA HAYE AND CAPT. AUSTIN. THE "GREAT BEITAIN"—Mr. DE LA HAYE AND CAPT. AUSTIN.

SIR.—In the Mining Journal of last Saturday, I observed a letter from Mr. De la Haye, of Liverpool, recommending a cylinder of India rubber to be placed round the Great Britain, and inflated with air, which would render her sufficiently buoyant to float at the next rise of the tide. Now, as I do not think your correspondent would willingly infringe on any other person's invention, I will just inform him that such is the plan adopted for raising sunken vessels by Capt. Austin, for which he obtained a patent four or five years since, and which patent was taken up by the Universal Salvage Company—now, I believe, nearly defunct. Having been informed that some overtures had been made by Capt. Austin, for raising the Great Britain, I have waited with much interest for some information through the press, as to whether such had been taken into consideration by the directors, as I feel satisfied that, by Capt. Austin's process—that of adding flexible air vessels, until she was sufficiently buoyant—she might be got off without any farther damage than what she has already sustained. I should feel obliged for some information on the subject.—Q: Austinfriars, November 4. ject .- Q .: Austinfriars, No

THE "GREAT BRITAIN"-THE CHART.

THE "GREAT BRITAIN"—THE CHART.

Sire,—It does not appear quite clear by whom the chart was published, which was used by Capt. Hosken, and to which the loss of the Great Britain is so much attributed, though it is somewhat implied, in your Mining Journal of the 24th—this, I think, should be fairly stated, that the saddle may be put upon the right horse.

Your Constant Reader.

Yarmouth, Oct. 27.

[The chart used by Capt. Hosken was a Liverpool publication, and, though sold by the authorised agent, had no authority on that account, as, according to Mr. Bate, the agent for the Admiralty, that body has never published any chart of the course.]

THE "GREAT BRITAIN"—ST. JOHN'S POINT.

Sir,—In Captain Claxton's letter to Mr. Bennett, giving a detail of the circumstances which preceded the unfortunate occurrence of the Great Britain, it is stated that, "on examining Captain Hosken's chart, which was bought by him when going out on his previous voyage in June, as the latest and most correct chart, there is found in it no mention whatever of a revolving or intermitting light, or any other light whatever, on St. John's Point, "and again, "this St. John's Light, of which he had never heard, and which is not named in his chart, is all at once seen," &c. Now, Sir, I beg leave to remark, that, in the Yearly Journal of Trade, 1845, under the head of "Dangers of the Seas," p. 233, notice is given at large that a lighthouse has been erected on St. John's Point, County Down, "from which a light will be shown on the 1st of May, 1844, and which will thereafter be lighted every night from sunset to sunvise. The light to be an intermitting light. Mariners are cautioned to avoid the in-draught of Dundrum Bay;" so that, from Captain Hosken's own showing, had he consulted my Journal, 1845, the latest published, this sad disaster might in all probability been avoided.—Charles Pope: Came Villa, Portishead. THE "GREAT BRITAIN"-ST. JOHN'S POINT.

IMPROVEMENTS IN SHIPBUILDING. THE WAVE LINE TO THE EDITOR OF THE MECHANICS MAGAZINE.

Size,—It was with no small pleasure that I read, in your last Number, e "clever letter" of "Nanticus." To speak nautically, I can neither ake stem nor stern of it. He says—"The resistance before this part (the the "clever letter" of "Nanticus." To speak nautically, I can neither make stem nor stern of it. He says—"The resistance before this part (the kreadest part of a vessel immersed in the water) arises from three causes; the heartin of the fluid to be overcome, the friction from contact between it and the bows, and the cohesion of the water to the bows and sides of the vessel." Allow me to ask him, what is the difference between friction and cohesions? If he will examine minutely, he will find they are identically the same. And what, may I ask, has the friction of the water to the "side of the vessel" to do with the resistance "before this part?"

He further says—"When a fluid and a solid meet, the effect of the impression is, at all times, perpendicular to the surface of the solid, in whatever direction they may approach each other; and the more acute the angle of incidence becomes, the less violent will be the contact." And again—"I hall be able to demonstrate that, with a given breadth, the amount of resist-

since from the inertia of the fluid will be the same, arrange the angle of incadence as you will." The one sentence is a contradiction of the other. Again—"As a vessel prograsses knough the water, the whole of the surrounding fluid is pressed upon be equally, and moves in a direction contrary to that of her course, simultaneously disoughout her whole length—consequently, the wedge-like shape of bow is useless!" A most astounding consequence, indeed. I have long said, that "theory is that which cannot be reduced to practice," and many an instance have I seen of the truth of that saying, but none more glaring than the present. Take away the wedge-shaped bows of the steamers on the Thames, and what would they become? Why, equal to the fleet of the General Steam Navigation Company—as et of old tubs, the slowest in the country—of course, I except one or two of that company a wedge-shaped boats, which have been forced upon them. Let "Nanticus" try his hand at a tab, or a square box, and then add to either a wedge-shaped bow, and he will find that the wedge-save considerable power. Strange to say, practice has proved, that the more assure the angle of incidence, the greater has been the speed. It is generally supposed that, when a vessel moves through the water, the water is at rest as compared with the vessel, and that the water does not move as "Nanticus" states. He says—"In progressing, she will receive the water in the direction of the arrow H," which certainly is not "perpendicular to the surface of the solid." Again—"Now the angle of incidence will be such as to diminish the violence of the contact (guery; the effect of inertia, or, rather, the inertia of the water?) in the proportion which the line E F beart to line C B." He ought to have said—"In the proportion of CB or C G to E F;" and the resistance at any one point will be reduced in exactly the same ratio. Now, let us suppose a thousand." arrows, H," or points of contact, to be shot from the line E; they will impinge on CB with a certain force; and the vis

IMPROVEMENTS IN SHIPBUILDING-THE WAVE LINE.

IMPROVEMENTS IN STIPBUILDING—THE WAVE LINE.

Sin,—Instead of proceeding with the subject of shipbiniding, as I proposed last week, I will thank you to insert the following reply to a letter from some one at Gateshead, under the signature of "R. S. N.," which appeared in the Mechanics Magazine of the 31st ultimo. The writer commences by stating, that he "can make neither stem nor stern" of the extract you made, in a previous Number, from one of my letters in the Mining Journal. I can very well believe that he cannot do so, from the very great capability of reasoning, and the peculiar logic he displays throughout his letter. Nothing that he has advanced amounts to matter requiring argument to refute—his idea of friction and cohesion being identical, is quite sufficient to stamp his letter with absurdity: what analogy he has discovered between "rubbing" and "sticking," it would be enrious to know. However, to be more serious, "R. S. N.," whoever he may be, is evidently quite innocent of the slightest idea of the operation of the law attending the contact between a fluid and a solid, by which "the effect of the impression is, at all times, perpendicular to the surface of the solid,"—and the more acute the angle of incidence becomes, the less violent will be the contact: "he is consequently unable to comprehend how, with a given breadth, the amount of resistance, from the inertia of the fluid, will be the same, arrange the angle of incidence as you will." Take the length of the lime indicating the greatest breadth of a vessel, and narrow her bows, so as to throw this part far aft,—although the angle at which the water will impinge on the bow, will become acute, and so diminish the effect of the impression on any one square inch of surface—yet this effect is not gained by placing a line of equal length to the breadth of the vessel at the angle proposed; but the breadth remaining the same, and the direction of the course being at right angles with it, it requires a line longer than that measuring the breadth to descri real value of the resistance is the same. I will, however, for the suffisfaction of your readers, and the information of "R. S. N.," demonstrate willy

tion of your readers, and the information of "R. S. N.," demonstrate why
the resistance remains the same.

When a vessel progresses through the water, her course will be at right
angles, with a transverse line drawn across her broadest part; should this
broadest part be at the very extremity forward, the water will meet it at
right angles,—and the amount of resistance on each square inche is surfact will be precisely as the violence of the contact; but if this broadest
part is removed further aft, the breadth of the vessel remaining the same,
the length of the line from the stem to one extremity of this broadest part
will increase as it recedes aft—thus increasing the actual number of square
inches of surface on which the water has to impinge, and the pressure will be simultaneous throughout the whole quantity, not commencing
at the point, and insidiously making way like a wedge into a solid. This
line C B, between the stem and broadest
part (see fig.) becomes the hypothenuse
of a right angled triangle, of which the line
A B, one-half of the breadth of the vessel,
is the base—the perpendicular being that
part of the midship longitudinal section

is the base—the perpendicular being the part of the midship longitudinal section intersected at A to the stem C. The hy intersected at A to the stem C. The by-pothenuse and perpendicular must be in-creased in length to diminish the angle creased in length to diminish the angle formed by them at C, which angle is always equal to the angle of incidence, at which a fluid would strike the hypothenese, if approaching in a line parallel to the perpendicular, "because (Euclid, prop. 29), if a straight lines, it makes the alternate angles equal to one another." Therefore, the base A B being constant, the angle of incidence, and the hypothenese C B, must always have a proportionate ratio of incidence, and the hypothenese C B, must always have a proportionate ratio of incidence, and the hypothenese C B, must always have a proportionate ratio of incidence and decrease towards each other; consequently, the number of square inches of surface on which the water has to impinge between the same parallels, will increase as the angle of incidence adminishes. Again, taking the same figure, the water is received between the parallel lines E A and F B, in the direction of the arrow H, also, parallel to these lines, and at right angles to the line A B, the measure of one-half of the breadth of the vessel. E F being parallel to A B. Now, to dimnish the angle at which water will be received (on another straight line), coming towards A B, in the direction of arrow H, parallel to E. Acceptable of the contract of the

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ATMOSPHERIC RAILWAY GAZETTE.

and F B, it will be necessary to draw a line not at right angles with those parallel lines—consequently, as the alternate angles increase, at which it will fall upon those parallel straight lines, the length of the line between them must increase also, as shown at C B or C G; whilst E F, the value of the resistance, remains the same. If it were possible, let E F be equal to C B; but it has been shown, that E F is equal to A B—therefore, A B must be equal to C B also; the less equal to the greater, which is impossible, Q E. D. Thus, the amount of resistance from the inertia of the fluid will be the same, with a given breadth, arrange the angle of incidence as you will. As the vessel moves, the effect of the impression on each square inch will be equal—therefore, the idea of the 1000 arrows shot from line E F is absurd; because, suppose one square inch to represent an arrow, the number required to cover line C B or C G, would exceed this thousand dispatched from E F (as proposed by "R S. N."), in an exact ratio to the decrease of the force of contact—the fact being that the line E F is the measure of the resistance, not of the quantity of water impinging on C B. His remarks about tubs and square boxes, I will pass over, merely asking him, if he ever saw a Dutch galliot at sea in a gale of wind, and observed how she rode the water "like a thing of life?"

His account of the Columbus, of London, does not at all bear on the question—she may have great length, or other qualities, which obviate the defect of the narrow bows; "she may prove to be the exception to the rule."

Next, "R. S. N.", says, "the fulcrum, if he may so call it, of vibration, is in the line which divides the fore from the after part of the vessel; "by this I mean that the part in the front of the fulcrum will displace the same quantity of water as the after-part." This is true, as regards the gravitation of the vessel,—but not so with reference to the resistance between a fluid and solid, when coming into contact, on account of the law, explained and F B, it will be necessary to draw a line not at right angles with those

1

explained above—that of the pressure being "perpendicular to the surface of the solid:" wherefore, to whichever end the narrowing of the vessel takes place, the effect of the pressure will incline towards the opposite end, in a degree proportioned to the narrowing; and if great preponderance of buoyancy is not given to the fore end, by making it displace more water than the after one, the energy of the canvas would run her bows under, in a manner similar to that in which vessels have been sent down stern first, when taken aback by a sudden squall

der, in a manner similar to that in which vessels have deed sent definitions, when taken aback by a sudden squall.

From the remark "R. S. N." makes about the arrow in my figure, indicating the direction the water will approach to the bow,—and, in fact, measuring the angle of incidence,—it is quite clear that he does not understand what is meant by the term, "perpendicular to the surface of the

derstand what is meant by the term, "perpendicular to the surface of the solid." Pope justly says—

"A little learning is a dangerous thing—
Drink deep, or taste not, the pierian spring."

I will make a direct reply to the question, "Has ever 'Nauticus' been at sea?" by stating, that I went afloat at 14 years of age, and have commanded vessels for years, both crossing the Atlantic, visiting the Arctic regions, and many other parts of the globe.—Nauticus: London, Nov. 4.

#### ON THE ECONOMICAL CONSTRUCTION AND WORKING OF RAILWAYS.

Sir,-In the early part of 1809, I entered a caveat at the Patent-office for an "improved railway, and for carriages to be used thereon;" but such was the state of public opinion at that time, that I could get no one willing to as sist in procuring a patent-consequently, despairing of success. I let the affair About two or three years after this, happening to be at Leeds, and learn ing that a Mr. Brenkensop, an engineer to a colliery in the neighbourhood, had patented a railway, with a rack and pinion, I was induced to inspect it, and was surprised to find it, as I deemed, a very bungling contrivance-viz.: by putting the rack, or tooth, on the outside of the cast rail, which, of course, mad a very imperfect one-sided strain upon the rail, and, as might be supposed be the case, soon made the short 3-feet rails ricketty-the pinion, or tooth-wheel, which worked in the rack, was of small dimension, consequently, the speed did not exceed about three to four miles per hour. Being at that time otherwise engaged, I took no further interest in the matter, until the open of the Liverpool and Manchester Railway, where the plan of obtaining the ful-crum by friction on the rail was adopted. I gave up all thoughts of the rack and pinion plan, thinking that it was quite superseded by the new plan of adhesion, or friction, on the rail; nevertheless, I published some remarks in the Freeman's Journal, Dublin, about four years ago, wherein I endeavoured to show how manual power might be successfully employed on railways, either with a rack, as I originally proposed, or without. The original plan was somewhat as follows:—I proposed to lay down three longitudinal timber bearers framed firmly together upon cross or transverse timbers, about 6 feet apart, so as to produce a complete system of framework-the two outer ones, of course for the wheels of the carriages. On the middle one, I proposed to affix firmly a cast or wrought-iron rack, and a flange on each side of the pinion or tooth wheel, so as to guide the carriage, as well as to prevent the possibility of the

a cast or wrought-iron rack, and a flange on each side of the pinion or tooth-wheel, so as to guide the carriage, as well as to prevent the possibility of the arriages getting entirely off the road. I proposed the wheels to run on the bare timber—thereby saving the whole cost of iron rails; the wheels I intended to revolve on the axles, which would enable the engines and carriages to run round very sharp curves, without the least danger of running off; for, supposing the driving-tooth wheel thrown out of gear, it would be stopped by the wheel from getting entirely off the road. I proposed that the driving toothed-wheel should work easily on the rack, allowing as much play as might be deemed advisable, and of such dimensions as might be deemed most desirable for passenger and merchandise traffic—of course, for passenger traffic, the wheel inght be larger than for goods; and, therefore, suppose for the sake of speed, the wheel to be 8 feet diameter, and, by the aid of steam, the revolutions to be 100 times in a minute, that would produce a speed of nearly 30 miles per hour. Now, if the wheels run on bare hard timber—such as beech, &c.—tis clear, as I have before observed, that the whole of the expense of iron rails would be saved. Suppose a double line of rails of 90 bls. to the yard, which, with screws, &c., would be about 300 tons per mile, which, at 12! per ton, would be about 3600! per mile, against which I have to reckon the cost of the cast-iron rack as the only drawback—as I contend, in consequence of the reduced weight of the engines, the same amount of timber and labour of constructing the framework of a railway, similar to the Great Western double line, would be equal to the proposed three lines—suppose the two cast racks to be about 140 tons per mile, at 71, per ton, would be about 1000.—so that, it would appear, that this plan, independent of other advantages, would save about 2600!, per mile on a double line of way, or half that sum on a single one: thus much for the cost of construction. If, however

the principal cause of straining and injuring the rails, on account of the enormous weight, and the friction thereby needfully caused, in order to drag immense trains or heavy loads.

2. The almost utter impossibility of getting entirely off the road.

3. The facility: owing to the wheels, revolving on the axles, running with

3. The facility: owing to the vinces, reflect safety on very sharp curves.

4. Though last, perhaps not least, the facility and safety of going up or down seep incline planes—thereby saving large, and sometimes enormous, outlay in

4. Though last, perhaps not least, the facility and safety of going up or down steep incline planes—thereby saving large, and sometimes enormous, outlay in cuttings, tunnels, &c.

At the time I mention—viz.: 1809—I made a model in iron, about 3 feet long and 18 inches wide, which I exhibited to many of my acquaintances and friends, many of whom were persons of important standing in society of mechanical and scientific attainments, all of whom expressed approbation of my plan as possessing considerable merit; yet it was their general opinion, that the cost would be so great, the road requiring a separate or distinct way, &c., &c., that, however feasable it might at first sight appear, they did not think there would be sufficient advantages to induce the public to adopt it—and, therefore, they thought it would not be advisable to incur a serious expense in the attempt; but at that time, and subsequently, I contended with them, in opposition to their opinion, that railways would one day supersed canals and stage-coaches, which time and events has now most amply and indisputably proved—thus, as it respects railways, I am confirmed: whether I am right as to my theory of working, time will also determine. I may further observe, that on this model I placed several hundred weight, and, setting on the top, by means of a handle, I propelled myself backwards and forwards at a considerable importance, allow me to offer, in reference to my theory, some observation on mechanical power. Mechanical power is compounded of the weight or expansive force of a moving body multiplied into its velocity; the power of a body, which weighs 40 lba, and moved with a velocity of 50 feet in a second,

is the same as that which weighs 80 lbs., and moves with a velocity of 25 feet in a second, for the product of the respective weights and velocity are the same.  $40\times50=2000,\quad 80\times25=2000.$  Power is obtained from animal exertion, from the impulsive and gravitating properties of fluids, and from expansive and contractile properties of steam and gases. The following table is extracted from Tredgold's excellent work on railroads:—

elocity in miles per hour.	Duration of the day's work.		orse working one day, in
Miles.	Hours.		ilway. Turnpike-roa
21		. Tons 520 Tons	115 Tons 14
3		243	92 12
34	5 9-10	153	82 10
4	41	102	72 9
5	29-10	52	57 7.2
6		30	48 6
7		19	61 5.1
8		12.8	36 4'5
9	1 1-10	9	32 4
10		6.6	28.8 3.6

By this table it appears that, at a speed of five miles per hour, the power to convey on water and on the rail is about equal—both being eight times greater than the turnpike-road; but at 10 miles per hour, the rail has an advantage over the canal, and about eight times over the turnpike-road; and that, therefore, on a rail, one horse is equal to eight on a turnpike-road. Two men, of ordinary strength, can turn a winch with a force of 70 lbs., with a velocity of 21 lett yet second. ordinary strength, can turn a winch with a force of 70 lbs., with a velocity of 3½ feet per second, for 10 hours a day. A man, in towing a boat, can exert about 30 lbs.—while a horse will accomplish seven or eight times more, though a horse cannot carry up a hill more than three times what a man can do; on an average, therefore, six men may be considered, especially at a winch, equal to one horse. It appears, from the foregoing table, that one horse can draw about four tons seven miles on a railway in three-quarters of an hour, which is presumed to be as much as should be required of a horse to do in one day; though I have no doubt but that, on an average, on a perfectly level road, one horse would draw, by proper management, at least five tons 10 or 12 miles per day, at the rate of 10 to 12 miles per hour.

Having stated thus much, allow me to make some observations on manual, as compared with horse, power. Let us suppose that six men are equal to one horse.

no doubt but that, on an average, on a perfectly level road, one horse would draw, by proper management, at least five tons 10 or 12 miles per day, at the rate of 10 to 12 miles per hour.

Having stated thus much, allow me to make some observations on manual, as compared with horse, power. Let us suppose that six men are equal to one horse, and can exert a power equal to 220 lbs., as beforestated—though I believe their united efforts may be fairly considered equal to 240 lbs. to 250 lbs..—and, therefore, I will assume 240 lbs.—now, suppose, on a good level road, the friction to be 8 lbs. to the ton on iron rails, or 10 lbs. per ton on hard wood, then the power of six men will move a body weighing 30 tons, which I think no one, practically acquainted with railneaps, will dispute, as I have seen an ordinary man move a carriage, weighing from six to seven tons, at a good walking pace of at least three miles per hour. Now, let us suppose a carriage, or machine, made so as to have a driving toothed-wheel—of (say) 6 feet diameter—with a handle, to perform a circle of 3 feet, which, being one-half of the diameter of the large wheel, 240 lbs. applied to the handle, would give 120 lbs. to the outer surface of the large wheel, which would be equal to the traction, or friction, of 15 tons of the handle—is made torevolve 25 times in a minute, would be a velocity of about 3½ ft. in a second, and the large wheel being 6 yards in circumference, the carriage, or machine, would be propelled at about five miles per hour, moving a load of 15 tons: then, according to Tredgold's table, 7½ tons could be moved by the same power, 10 miles per hour; supposing no loss of power from the multiplying wheel, needful to obtain high speed, but which would not be required, if steam was employed as the moving power. As respects the friction occasioned by the toothed-wheel and rack for the speed of five miles per hour, there could not be much loss of power in the multiplying pinion being used; and if moved by steam 100 times in a minute, a speed

miles in one day! I must be observed, that the men do not suffer by currying their own bodies, like in walking—their own weight only occassioning a friction with the general load, less than half a pound each.

Startling as this may sound in the ears of those unacquainted with mechanical inventions, it is not so preposterous as some ignorant thereof may be led to imagine. I know a party, a coach-builder, who offered a considerable bet that he would undertake a journey from Bristol to London (120 miles), on a carriage he had constructed, in the day, on the common turmpike-road (which, according to his statement, there is good reason to think he could do), which, considering the undulation of the road, would be a greater feat than the above, because himself and the carriage I should think would not be less than 3 cwts.; and as there is a difference of eight times in favour of the rail, 3 cwts. would be equal to 24 cwts., which, multiplied by eight, the number of men proposed to be employed, would be equal to nearly 10 tons. Let us, however, take it for granted, that a load of three tons may, by eight men, be propelled (say) 25 miles in one hour—and imagine this load to include the carriage, the workmen, and 20 passengers, and they make the journey (say) six times a day—this would be equal to 20 persons conveyed 150 miles at the cost of the labour of eight men, which, in Ireland, may be readily obtained at 1s. each, or 8s.—so that the cost of power to convey a person 150 miles, would be under 5d.

Now, let us again imagine a short branch railway, made across some of the extensive turf lands in Ireland—say, 12 miles in length—to be constructed in the manner I have described, the scantling of the three timber racks to be 12 inches by 6 inches, fixed on cross or transverse timber at 6 feet apart, this would require about 6 cubic feet of timber every vard—which, including labour for laying down complete, might be accomplished at 2s. 6d. per foot, or 15s. per yard, or 1320l. per mile—so that what is termed the upper wor

if a light carriage of (say) two to three tons was used, then one horse would effect the conveyance of all the traffic, as well as the three horses now employed, and thus save 7t to 8t per week; surely, it is a great sacrifice of power to move a dead load of at least one ton to each person. On the Edinburgh and Dalkieth Railway, worked by horses, one horse draws with ease, at 10 miles per hour, 40 passengers, at a charge of less than 1d. per mile first-class, on which line from 4,000,000 to 5,000,000 of passengers have been conveyed without any serious or fatal accident either to passenger, man, or horse.

I will now bring my observations to a close, by allusion to a rather interesting matter of history. About the year 1820, a M. Francis Fortune, who then had an office in or near Lombard-street, issued a very long prospectus, accompanied with a map (a copy of which I got accidentally possessed of), wherein was laid down trunk lines to most of the important parts of the kingdom—to effect which he proposed that the Government should advance, at a stipulated interest, the required capital, leaving branches thereto to be effected by private companies. Among the numerous arguments in favour of the project, he expressed himself to this effect.—"That such is the improvement now making in the application of steam, it is reasonable to expect, that ere long the mails may be conveyed by that means on railways, at a speed of 12 miles per hour!! yet this individual (who was the first projector of the Great Western Railway) was denounced as a mere schemer and bauche projector. I have, however, lived long enough to see my ideas of the great advantage of railways completely established; and at present I can see no serious objection to my theory of construction, combination, and working, as being more economical and safe, and consequently more beneficial and desirable for the public, than those now in use.

I do not know if a plan, similar to what I have proposed, has ever been fairly tried; there may, possibly, be some formida

WESTERN GAS COMPANY.

In consequence of a requisition, numerously signed by the freeholders, lease-holders, and inhabitant householders of Kensal Green, and its vicinity, to the directors of the above company, to convene, as early as possible, a public meeting, for the purpose of ascertaining their real opinions and wishes respecting the erection of the gas-works in that neighbourhood, the meeting was held on Wednesday last, the 4th inst., at the Plough Inn, Kensal Green, and was most numerously attended.

G. L. TAYLOR, Esq. (the chairman of the board of directors), in the chair. The CHAIRMAN, having stated the objects of the meeting, read the requisi-

tion, calling upon them to convene the meeting, and the advertisement, and observed, that, as it was obvious their opponents at the former meeting did not represent the wishes of the majority of the inhabitants, they should now be most happy to hear the sentiments of any gentlemen present; and he assured the meeting that the honest conviction of the directors was, that, instead of an injury, the vereion of the works would prove a blessing to the neighbourhood; of the control of the works would prove a blessing to the possiblourhood; or control of the works would prove a blessing to the subjectories of the control of the works would prove a blessing to the subjectories of the control of the works would prove be preceding were conducted by the Rev. A. G. Pemberton, who presided, and his coleagues; the interruptions of the control of the control of the objection smale to a nuisance before it was in existence. He said, the directors of the company were so satisfied that, by the plan which they would adopt for the namulecture of their gas, an edisterious gases, such as sulphuretted hydrogen, carbonic acid, étc., would be thrown into the object of the company, which, if proved a nuisance, could, by the existing laws—wis: by a bill of indictment—he put a stop to, and the capital sank be entirely lost. He read the amendment, which was a strongly exposed by the rev. charman, and asked, if there was any thing in it to prevent a fair and open public good, but if areas from factious motives and sortility of the rev. charman, and asked, if there was a noy thing in it to prevent a fair and open public good, but if areas from factious motives and sortility of the capital sank in existance; and he trusted the same cold contempt would be achieved an in existance; and he trusted the same cold contempt would be achieved to the public good of civilitation. He was an existance; and the trusted the same cold contempt would be achieved to account the advance of the progress of science, and their dipression of the same public and the

the Fever Hospital, with an extensive bleaching ground behind, and they produced not the slightest ill effects to either the recovery of the patients, or the delicate operation of bleaching.

Mr. LANGHAM, of St. Marylebone, wished to make a few observations, as he thought the erection of the works would be a great benefit to Kensal-New-Town and the neighbourhood: he had two cottages there, one of which had been empty for a considerable time, and, on commencing the building the walls of the gas works, he had let it for more rent than he had ever before thought of asking: he was quite satisfied with Mr. Palmer's explanation for the prevention of any nuisance.

Mr. ROWNOTTOM asked, if it was true, as stated at the former meeting, that

of the gas works, he had let it for more ten.

of asking: he was quite satisfied with Mr. Palmer's explanation for the prevention of any nulsance.

Mr. Rownorton asked, if it was true, as stated at the former meeting, that Alderman Farebrother had seeded from the company?

The Chairman said, that the party making that statement had not the slightest authority for it—that it was not true—that the alderman remained in the direction as from the commencement, and a most efficient member he was of that body.

The resolutions, which will be found in another column, were then passed without a single dissentient—the chairman being most careful, after the show of hands for each, to give ample time for any to be held up to the contrary, but none appeared.—On moving the thanks of the meeting to the chairman, Mr. Maxwell. I drew attention to the marked contrast between the course pursued at this meeting, where all were allowed a fair hearing, and the former one, when the rev. chairman would allow no one to be heard, unless opposed to the company; and observed, that the warmest thanks were due to Mr. Taylor, for his impartial conduct that day.—The motion was carried with acclamation, and a person present having proposed three cheers for truth, and the Western Gas Company, it was given, and repeated with right good will—again achood by the children of the village, who had assumbled outside the lan; and the whole preceedings were astisfactorily expressive of the wishes and opinions of the great majority of the inhabitants, and the triumph ebtained by the advocates of the march of science and civilisation, over bigotry, ignorance, and intolerance.

# THE MINING JOURNAL, AND

### Mining Correspondence.

FIGURISH MINES.

BARRISTOWN.—The lode in the 24 fin. level end, west of engine-shaft, is 2 ft. wide, composed of carbonate of irou, with a slight mixture of lead; we have commenced a cross-cut to the lode in the 28 fin. level, south of flat-rod shaft. The 18 fin. level end is improved since my last, producing over 1 ton per fin. The 18 fin. level end west of flat-red shaft, is producing over 1 ton per fin. The 18 fin. level end west is producing 2 ton per fin. The western winze, sinking under the 12 fin. level, is producing about 1. ton per fin. The adid end east produces some good stones of lead, but nothing regular; lode large principally goesan. Nothing new at Clon Mines since my last. We have been disappointed in getting a vessel this week to take the lead; however, there is one in Waterford discharging at present that 1 hope to get—vessel shout like, chamging ports to load this season.—T. Angove; Oct. 30.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 80 fm. level east is 2 ft. wide, producing a little saving work, very promising. The lode in the 70 fm. level east is 2 ft. wide, and worth 10t. per fm. in the rise in this level, the lode is 2 ft. wide, and worth 10t. per fm. In the winze, in the 58 fm. level, the lode is 2 ft. wide, and worth 19t. per fm. At Wheal Tavistock, the lode in the 40 fm. level east is 1 ft. ft. wide; and morth 9t. per fm. At Wheal Tavistock, the lode in 10 for in places, altogether a strong kindly lode. The lode in the 45 fm. level, east is 1 ft. wide; and in this level west 15 in. wide, composed of spar, mundic, and stones of ore. In the 35 fm. level east, the lode is with the same as whon last reported. We weighed at Morwelham on Friday last, August ores 92 tons 3 cwts., and sampled September dress computed at 93 tons.—Janzs Phillips: Nov. 3.

CALLINGTON.—Johnson's engine-shaft for the past fortnight, the surpomen having been employed fixing plunger life, cutting plat, &c.. In the adil level east, the note he mer for drive west; in the north end, the lode is producing silver

The tribute department looks well, and notes tare for breasing a good quality; we have also a small parcel of copper ores at surface, which the tributers will now commonee dressing; when sampled and assayed, the value shall be made known.—J. T. PithiLips: Nov. 2.

COOK'S KITCHEM.—At Chapple's lode, we have been engaged in cutting a plat at the engine-shaft, at the 180 fm. level, and have now commenced sinking under this level. The 180 fm. level, and have now commenced sinking under this level. The 180 fm. level west, the part of the lode on which we are driving, is 1 ft. wide, and worth about 151, per fm., but the whole lode is much more valuable than this, being, we suppose, about 4 fms. which; the lode gone down in the bottom of this level is an exceedingly fine one, and leads us to hope for favourable results in the 190 fm. level. The winze sinking below the 170 fm. level is now down about 7 fms., and we expect to communicate it with the 180 fm. level at the latter part of the month, when the ing ground between the two levels will be completely laid open for being worked to advantage, and will set at a low tribute. In the 170 fm. level end west we have only just got clear of the little cross-course, and, therefore, cannot say much of the appearance or value of the lode, into thaving yet recovered from the disorder produced by the oross-course. The winze sinking under the 160 fm. level west, which is down about 5 fms. below the level, the part of the lode on which we are sinking, is 4ft, wide, and worth from 12t. to 16t. per fm., but the whole lode is very much larger, and uproportionably more valuable; we expect to hole the winze to the 170 fm. level at about the middle of next month, when we shall be enabled to set to work, on tribute, some of the best ground through which we are carrying is 5 ft., wide, and worth 16t per fm; this level is not yet over the valuable ting ground in the 170. We have just commenced driving the 16th new the surface, and the surface, and the surface, and the surface, and the surf

that lead would be raised in sinking, as the gruffers raised lend in abundance cast of this, as well as in Chipman's works. At the north lode, since our last meeting, we have sumt 9 ft.—making the depth 14 fms. from surface; in doing so, we raised about 1 ton of barytes—this I also abandoned at the end of July, as the lode split and took horse; but both the north and south parts of the lode contains lead and barytes. In removing the men from here, I put them on, tribute on the backs, both for lead and barytes; and these two men raised in two months about 17 tons of barytes, and 21 cwts. of lead, and are now working at 10s. per ton for barytes, and 12s. in the 1L for lead, and they are making wages at this tribute; I, therefore, consider our prospects are looking well and that we shall have a good mine by-and-bye.—RICHARD TREVITHICK.—I We gave a report of the meeting of adventurers in last week's Journal, and now present the agents' report furnished to the meeting, which we consider encouraging, and will prove highly satisfactory to the adventurers.]

GREAT MICHELL CONSOLS.—I beg to hand you the following report on these mines:—On my taking charge at the latter end of January last, the only work in progress was driving the adit level, which is 9 fms. deep, by four men; this work has been continued until August, when it was considered amongh had been done for the present—the drivage, since we commenced, amenanted to 25 fms.; the lode averaging 24 ft. wide, and of a promising appearance, producing in places some goodstones of ore—this adit would come into our present shaft the depth of 28 fms. from surface in 286 fms. driving. The shaft was pliched to take the lode 20 fms. deep, and was commenced on the 29th of January; we cut the lode some time since, 22 fathoms from the surface. The ground, for the whole distance time since, 22 fathoms from the surface. The ground, for the whole distance time since, in 286 fms. driving. The shaft was pliched to take the lode 20 fms. deep, in dwill fath, we cut a good course of o

lode is not as yet known, although it has been out into at one point of the drivage for upwards of 7½ ft., without reaching either the north or south wall thereof. The 22 fm. level has been driven west from the shaft 7 fms. in the north part of the lode—its composition is capel, spar, gossan, mandic, and stones of ore; the present end is promising improvement. About 24 fms. east of the engineshat the lode at surface is very fme; large rocks of prime gossan has been thrown off by it; and it is expected that, when the level is driven under this point, we shall find the bode materially improve; the shaft is now down 10 ft. under the 22 fm. level, and, from the present appearance of the ground, we expect to reach the 32 fm. level in about 11 weeks. The water-wheel, 45 ft. by 4½ ft., is a very efficient machine, and will enable us to sink to a great depth—I should say, 150 fms. During the late dry season, we had a very good stream of water, quite sufficient for working it; and there is another stream available, if at any time required. On the whole, I consider the prospects of the concern of a flattering description.—T. Richards: Nov. 3.

EAST TAMAR CONSOLS.—At Whitson, I have put the shaftmen to cut a plat at the 54 fm. level to prepare for sinking, which work will be completed by the latter part of this week. In the 54 fm. level south, the lode is 20 in. wide, composed of fluor, spar, and ore. In the 46 fm. level south, the lode is 20 in. wide, saving work; in the 54 fm. level south, the lode is 18 lin. wide, saving work. We have set a pitch in the back of this level; at 68 cfm. level south, the lode is 20 in. wide, composed of fluor, spar, and ore. Our machine houses are up, waiting for the engineer to put in the machinery for the stamps and crusher.—B. ROBINS: Nov. 3.

GUNNIS LAKE.—At Chilsworthy, the lode in the 12 fm. level, work, weat of Ballovia engines that it, 28 ft. wide, requires that it, 28 ft. wide, requires that it, 28 ft. wide, producing some event earlies work, and of

GUNNIS LAKE.—At Chilsworthy, the lode in the 12 fm. level, west of Builey's engine-shaft, is  $2_b$  ft. wide, producing some good saving work; and in this level east, there is no alteration. In Balley's engine-shaft, the lode is 3 ft. wide, composed of gossan and spar, and good stones of copper ore in places—a very kindly lode.—W. RICHARDS: Nov. 3.

HAWKMOOR.—In the 15 fm. level, east of Hitchins's shaft, there has been out little done in the past week, the men having been put to clear a shaft for he purpose of ventilation.—P. RICHARDS; Nov. 3.

the purpose of ventilation.—P. RICHARDS: Nov. 3.

HOLMBUSH.—I beg to mform you, the shaftmen are still engaged about the work reported on last week. We have intersected the lode at the 120 fm. level, west of the great cross-course, and find it 1 ft. wide, and worth 204. per fm.; in the same level, driving east, the lode is 10 in. wide, composed of mundic, spar, and stones of ore; in the 120 fm. level, west of winze, the lode is 12 inches wide, and worth 64. per fm. The lode in the rise above the 110 fathom level (on the north part) iis 1 ft. wide, producing stones of ore; in the 110 south we have flavourable ground for driving on the flookan part of the lode, which is producing stones of lead. The lode in the stopes below the 100 fm. level, on the north part, is 18 in. wide, and with 12L per fm.; in the same level, driving south, the lode is 3 ft. wide, composed of spar, flookan, and stones of lead. The lead pitches, in the back of this level, are much the same as last reported on. We weighed at Calstock quay, on Friday last, September ores, 97 tons 9 cwts, and sampled Oct. ores, computed 106 tons. I beg to inform you, also, that our lead ores have weighed 12 tons 5 cwts. 1 qr., payable, and is in the cellars at Hatton quay, waiting the arrival of the vessel.—W. Lean: Nov. 3.

LANIVET CONSOLS.—In the 80 fm. level, west of Elizabeth shaft, the

cellars at Hatton quay, waiting the arrival of the vessel.—W. Lean: Nov. 3.

LANIVET CONSOLS.—In the 80 fm. level, west of Elizabeth shaft, the leader part of the lode is 2 ft. wide, producing a little ore; ditto east, the lode is 8 ft. wide, saving work. In the winze coming down from the 70, on this level, the leader part of the lode is 1 ft. wide, producing some good ore. We have cut 2 fms. fnto the lode at the 40 fm. level, but have not yet cut the north lode; throughout the operations the lode has produced a small quantity of ore, but not worth saving. The lode in the 30 cast is at present unproductive—we expect a speedy improvement in this end, as there is one gone up in a pitch in the back of the 40, which is but a few fathoma east of the end before montioned.—HENRY WILLIAMS; WILLIAM MICHELL.

LEWIS .- At Wheal Nutt engine-shaft, the lode in the 60 fm. level end east LEWIS.—At Wheal Nutt engine-shaft, the lode in the 60 fm. lovel end east is 1 ft. wide, producing some tin; we expect shortly to intersect a flookan in this level; and to the east of the same we are hoping to have such an improvement as we had at the level above. The lode in the 60 west is 2 ft. wide, worth 2l. per fn. for tin. The lode in the 50 fm. level end east is 4 feet wide worth 50l. per fn. for tin. We are continuing to drive the cross-cut south at the 50, west of engine-shaft, in order to intersect the south branch, ground favourable. The lode in the 40 fm. level end east is 2 ft. wide, worth 4l. per fn. for tin. The lode in the 30 fathom level east is 2 feet wide, worth 2l. per fn. for tin; the lode in the 30 end west, on south branch, is 8 inches wide, worth 2l. per fn. for tin; the lode in the 30 end west, on south branch, is 10 in. wide, set at 10s. in 20s. for saving the tin; the back and bottom, in this level, are set at an average tribute of 11s. We are also extending the cross-cut north, at the 20 fm. level, from copper ore shaft, where we expect shortly to intersect the north lode (or lode in Bush's shaft); the lode in Bush's shaft, sinking under adit level, is 20 in. wide, saving work for tin. We have this day commenced to put the boiler 'for the stamping machine in its place and are using every effort to get the stamps to work as soon as possible.—S. S. Norkle: Oct. 31.

MENDLY HILLS.—No important alteration has taken place in any part

NORLL: Oct. 31.

MENDIP HILLS.—No important alteration has taken place in any part of the mine during the past week. The lode in Stainsby's shaft continues about 8 ft. wide, composed of quartz, flookan, and stones of good quality lead in places; the ground is favourable for sinking, being sunk at 51. per fm., now down 17 ft. 6 in. below the 38 fm. level. In the 25 fm. level, north of Barwell's shaft, the lode is about 3 ft. wide, composed of carbonate of lime and quartz, ground not quite so favourable for driving as it has been. In the 29 fm. level cross-cut, west of new siaft, the ground continues very hard for driving.—F. C. Harruer: Now. 2.

PENTUAN WHEAL MARY.—Since the 21st of last month the men have driven 5 fms. The ground, through which we are driving, is still looking well. From the strata, we have good indications of the lode yielding plenty of copper ore in depth, and from which there is also every prospect of success.—JAMES CHYNOWETH: Nov. 3.

per ore in depth, and from which there is also every prospect of success.—
JAMES CHYNOWERT: Nov. 3.

SOUTH WHEAL TRELAWNEY.—Sobey's lode, in the adit level south is 1 ft. wide, composed of gossan, prian, flockan, and mundio—underlying cast 1 ft. 9 in. in a fim, and is again set to drive by four men, at 24. 15s. per fin.; in driving the last 7 or 8 ft. the lode was much larger, and has a kindlier appearance than the lode in the present end; the direction of the lode is 17° west of south; and, having carried it out on that point for some distance southward from the adit end, we have fixed on a spot where to sink the engine shaft, which we shall commence in a few days. The men are employed just now in making a road for the materials to be carried in the field, where we shall fix our horse-whim, carry stone for building engine-house, and all that is necessary. We have costeaned in several places, but the shaft being so deep, that nothing of a lode can be seen in either pit; we have, therefore, abandoned it, and shall fill them in. In the deep adit east we have intersected another branches are we previously intersected), that we think it advisable to suspend operations here, and to confine ourselves to the sinking of the engme-shaft, and in driving south on Sobey's lode, to communicate to the shaft, to unwater and ventilate it, which will be at a depth of about 14 fms. I would likewise beg to inform you, we are raising stone for building engine-house, &c., and have got about 400 loads ready for the works.—W. Lean: Oct. 31.

TRELEIGH.—At Christoe's shaft, below the 100 fm, level, this will be sunk

for the works.—W. Lean: Oct. 31.

TRELEIGH.—At Christee's shaft, below the 100 fm. level, this will be sunk in the country; in the 100, east of ditto, lode 2 ft. wide, producing stones of ore, rather better than last week; in the 100, west of ditto, lode small, no ore. The 90 fathom level, west of ditto, holed; the winze, below the 90 fathom level east, holed; 19 fathom level, east of Garden's shaft, holed. In Garden's shaft, below the 90, the men are about preparing for the plunger litt; in the 90, west of ditto, lode 3 ft. wide, looking a little better than last reported, worth 23t per fm. In the 80, west of ditto, lode 2 ft. wide, with stones of ore. In the winze, below the 70, lode 18 in. wide, rather more promising, with stones the winze, below the 70, lode 18 in. wide, rather more promising, with stones of ore. In the 70, west of Good Fortune, lode 3½ ft. wide, worth 102. per fm. In the 60, west of Symons's, lode 2 ft. wide, worth 52 per fm. In the 58 west, on the north lode, the lode is 18 in. wide, very promising, worth 42 per fm., and a kindly appearance. In the 4 A, west of ditto, lode 14 in. wide, producing stones of ore, not of much value; the adit, west of ditto, is suspended; the cross-cut, south of ditto, south in the country, towards west shaft. The west shaft is suspended.—W. Symons: Oct. 30.

that is suspended.—W. SYMONS: Oct. 30.

UNITED HILLS.—In the 90 fm. level we have not yet cut the south wall of the lode; in driving south, in the eastern end of this level, it still continues very wet and hard; in the western end the lode is 37 ft. wide, 27 ft. good ore; in the stopes the lode is 23 ft. wide, 18 in. ore of good quality. In the 80 fm. level, eastern end, the lode is 33 ft. wide, 18 in. ore of good quality. In the 80 fm. level, eastern end, the lode is 38 ft. wide, 18 in. ore of fair quality; the ground in the cross-cut is a little more favourable for driving than last reported; in the statern shaft the lode is 38 ft. wide, 18 in. ore of fair quality. In the 60 fm. level the lode is 38 ft. wide, 27 ft. ore of average quality. In the 50 fm. level the ground is much harder for driving than last reported. In the shallow adit level the lode is 38 ft. wide, ore throughout, of low quality. At Wheal Charles, in the 50 fm. level the lode is 28 ft. wide, ore throughout, of low quality. At Wheal Charles, in the 50 fm. level the lode is 28 ft. wide, ore throughout, of low quality. At Wheal Charles, in the 50 fm. level the lode is 28 ft. wide, ore throughout, of low quality. At Wheal Charles, in the 50 fm. level the lode is 4 ft. wide, 27 ft. ore of average quality. At Wheal Sparrow, in the 40 fm. level, those ends are communicated; the men are now engaged putting in transroad and sundry other work. In the 30 fm. level the lode is 18 in. wide, producing some good stones of ore.—Thomas Trevenen.

WHEAL BLENCOWE.—I am happy to imberm you, that we have cut a

WHEAL BLENCOWE.-I am happy to inform you, that we have cut

good lode to-night in the bottom of our winze, between the 10 fm. and the 20 fm. level, and we have also a good lode in the western end; the mine is looking more kindly now than she has looked for some time.—John Dale.

WEST WHEAL FRIENDSHIP.—The engine-shaft is sunk to the depth of 33 fathoms below the surface. At the depth of 20 fms an adis is communicated, which has been driven about 120 fms, at this depth a lode was interested in the shaft, called the north lode, underlaying north about 3½ ft. in a fm. A level is being driven west, on the course of this lode, which is from 2 to 4 ft. wide, composed chiefly of mundic, dark killas, and quartz. From the character and appearance of this lode, I should recommend a suspension of all-operations on it at an shallow a depth, as I consider there is no chance of making any valuable discovery on this lode at the adit level. A cross-cut has been driven south from the engine-shaft about 7 fms, at this point; another lode, known by the name of middle lode, was interaceted, about 4 ft. wide, under a laying north, full 6 feet in a fm., with a well-defined well on the south-side. A level has been driven west about 3 fms, on the course of this lode, which is composed of mundic, soft dark killas, and capel. From the general appearance of this lode, I cannot recommend any further outlay at this point. I do not consider that this cross-cut has been driven a sufficient distance south, to prove the ground under the great gossan lode, mer with in costeaning at the surface,—and would recommend this cross-courie to be driven by six men, at least 10 or 15 fms, in order to prove the south ground; as I believe a large quantity of gossam, discovered at the surface, is not produced from the ledes already intersected in this roots-cut. I an inking the engine-shaft about 7 fms, below the adit level, the middle lode was intersected, continuing its underlay about 6 ft. in a fm.; the character and appearance much as where intersected in the south cross-cut. At the depth of 18 fms, or bottoms of engine-shaft, a cross-cut is being driven north, to intersect the middle and north lodes. I should recommend that this cross-cut be continued north, to intersect both of these lodes, before again sinking the engine-sha

ith fe on that last spoken of, is A lode, on which the adult has been oned

manner as to prevent any hindrance, as the greater portion of the lobby has been arched.—S. Secombe: Oct. 13.

WEST WHEAL JEWEL—In the 115 fm. level, east on Wheal Jewel lode, the lode is 15 in, wide, producing some stones of ore—this lode has a more promising appearance than when last reported. In the 100 fm: level east, on the same lode, the lode is 23 ft. wide, worth 92 per fm. In the 85 fm. level west, on the same lode, the lode is 1 ft. wide, unproductive. In the 12 fm. level west, on Tolcarne, tin lode, the lode is 18 in. wide, worth 27t. per fm., a little improvement in the past week. In the winze, in the bottom of the 12 fm. level, east of Quarry shaft, on the same lode, the lode is 2 ft. wide, worth 18t. per fm. In the winze, in the bottom of the deep adit, west of Quarry shaft, on the same lode, the lode is worth 8t. per fm. In the winze, in the bottom of the deep adit, west of old sump shaft, on the same lode, the lode is worth 4t. per fm.—RICHAID JOHNS: Nov. 2.

WHEAL AGNES.—I beg to state, the lode in the lavels, east and west, is 18 in. wide, saving work. The air in the ends is very foul, so that we could not conveniently drive the levels and work the backs on tribute, except we make a ventilation for air, which will make it better for driving the levels and working the backs. Saturday last, being our survey day, we set a pitch on tribute, at 9s, 6d, in the 1t, and have suspended the levels for the present; we have also set a shaft to sink to come down on the levels, at 30s, per fm.—B, Rodniss: Nov. 3.

WHEAL ADAMS.—In the 50 fm. level, driving south on the branch, we

make a ventilation for air, which will make it better for driving the levels and working the backs. Sturdey last, being our survey day, we set a pitch on tribute, at 9s, 6d, in the 14, and have suspended the levels for the present; we have also set a shaft to sink to come down on the levels, at 50s, per fin—B. ROBINS: Nov. 3.

WHEAL ADAMIS.—In the 50 fm. level, driving south on the branch, we have some good stones of lead from it.—I think that we are very near the lode by the water that is coming from it; I hope that we shall see it in a chort time, and brope to see a good lode by the stuff that is coming from the branch. The 40 fm. level, driving south on the western silver-lead, is much the same as last reported. I put the men that were in the rise, on the middle lode, to rise up under the winze coming down from the 28 fm. level, on the western lode; we expect to get through this week to the rise in the back of the 40 fm. level we expect to get through this week to the rise in the back of the 40 fm. level. I think that most of them are getting fair wages on their tribute.—T.MOYLES.

WHEAL ANNA.—This mine is silk to the depth of 50 fms. from surface and the 30, 40, and 50 fm. levels are driven about 120 fms each; and the lock in them, west of the engine and whim-shafts, appears to be all nearly worked away by former adventurers, which the first hole to the east of the engine-shaft, from what remains, does not appear to have been so productive; the size of the lode seems to vary from? for this continue to the west water by former adventurers, leaves me to think feature and the continue that the same state to do some good for the adventurers, leaves me to think feature and the same state to 60 fm. level, and tring the 30, 40, and 50 fm. level, just as I came. I have pointed out what, has been done in the level westware by former adventurers, leaves me to think feature and the same state to 60 fm. level, on the same state to form the same state and speedisest way of bringing the mine into a state to do some good

sible; the lode in the 10 fm. level, driving east, is much the same as usual. We have about 12 tons of lead ore dressed.—3. B. CLTMO: Oct 31.

WHEAL WALTER.—The engine-shaft (London shaft) has been sunk 30½ fms. below the surface, and a 30 fm. level cross-cut has been extended south from it 7 fms., which is shortly expected to intersect C lode; the shaft throughout has penetrated strata of deep blue killas, intermixed with branches and layers of felspar—all of which are decomposing, until within a faw feet of the bottom, where, as well as in the cross-cut, it has become more settled and compact, which I prefer to which in a decomposed strata, as the lode will probably partake of the settled nature of the surrounding rock. C lode has been intersected in the sdit 3 fms. below surface, and also in a shaft 6 fms. deep, for the south-west of the engine-shaft; in both places it is several fathoms wide (the exact which has never been ascertained), chiefly calcarcous spar and decomposed slate, with mundic and particles of copper and lead ores; in my opinion, it presents very good indications, and is worthy of extensive trial. D lode is situate north from the one above described, about 52 fms.; there is a cross-cut driving towards this lode at the adit, which is expected to intersect it, when extended 5 fms. further, until which time it would be premature to offer an opinion on it; south from C lode, about 53 fms., is B lode, on which the adit has been driven west 29 fms.—this lode has varied from 12 ft. to 2 ft. wide; its composition is decomposed felspan, killas, and mundic, sometimes conglomerated; about 6 fms. from the cross-course passes, to which point I think it would be advisable, under all ordinary circumstances, to extend the level, as many lodes make rich in similar situations, when poor at others. I should also think it a judicious plan to prosecute the winze, below this level, afresh, to explore the lode, where the rock is probably of a more permanent character; 46 fms.

south from that last spoken of, is A lode, on which the adit has been opened 6 fma.—It is composed of gossan and spor, 2 ft. wide, but of a character not worthy of recommendation. Upon the whole, from the mineralised and congenial nature of the strata, in which B and C lodes are embedded, the trifling water charges, the dispatch that can be made in developing the lodes, as well as the great width and favourable appearance of C lode particularly, I think you have a fair prospect of a good mine before you.—J. B. CLYMO: Oct. 31.

you have a fair prospect of a good mine before you.—J. R. CLXMO: Oct. 81.

WHEAL LOUISA.—Our sumpmen will resume sinking in the course of a day or two; and I hope the shaft will be down to the 20 fm. level in a short time, when we shall drive towards the lode with all possible speed. I am much pleased to inform you, that we have cut a lode in the south part of the mine, apparently a parallel lode to those which we are now driving to cut; the lode is about 2 ft. wide, composed of sugary spar, prian, &c., with strong indications of copper ore, a very kindly lode. Since the above, we have been driving through a beautiful soft killas, crossing several branches, from which appearances we have every reason to think the main lode is very near. We are driving the level into the hill at 8s. per fm., no timber—from this I will leave you to judge what the ground must be; the men are making wages at that price. James Chynoweth: Nov. 4.

#### FOREIGN MINES.

FOREIGN MINES.

BOLANOS MINES.—San Clemente, Sept. 14.—I have the pleasure to acknowledge receipt of your secretary's favour 1st June.

EL BOTK MINES.—The tutworks, as they have been driving in straight lines, and not following the ore especially, have naturally been less productive of ore than those works would have been, if worked a la carga; but my primary objects have been to open out the mine, and discover the ground, nevertheless, the ore broken during the six weeks we have been at work, will not average less than 800 eargas weekly. Besides the other tutworks, we have cleared out the shaft to the bottom, 15 varas below the Guadalupe cross-cut, and squared down its sides. By the accompanying a count, you will perceive the total mine costs, for the month ending 29th August, amounted to \$8729; the ore raised to that date, 3069 cargas, worth \$3 per carga, \$9297—so that the expenses of the mine have been fully covered, notwithstanding the great number of dead works performed: a number of these bargains have ceased from the present week; and as we now want ore, and the sinking of the shaft will be easier and cheaper when three malacates can be devoted to it, I have suspended this work till the new malacates can be devoted to it, I have suspended this work till the new malacate is ready, which will be, no doubt, by the end of next week; and, in the meanwhile, I have ordered as many bargains to be put on ore as can be accommodated; and, during these two weeks, I have no doubt we shall break upwards of 2000 cargas weekly.

SAN CLEMENTE SETTS.—The working and produce of these mines continue to decline. The little promise given by the west end of La Luz led to nothing, and the working is again in borrasca. The water is in the level of San Fernando rising very slowly.

SAN FRANCISCO DE PAULA MINE.—A third malacate has been put to work, and a citstern completed at the mouth of the cross-cut No. 3. The water from this cross-cut had increased so much, that it prevented our working in the bottom of the shaft, and enables

water, are much missed. The losses on this mine will, consequently, continue until those bottoms are drained, and until we can break the ore in our new discoveries in level No. 3.

Cellestina Mine.—Owing to the suspension of work in this mine, advised in my last, no "torta" has been washed in August, and the less appears heavy. The produce of the partido system, however, will cover this loss in September. During the first week of partido, we had an average of 20 paradas at work by day, and 10 by night, and they broke for the hacienda share, 150 cargas of ore, assaying in the patio 16 mcs.; but as the buscones had difficulty in settling their share, the number of paradas who came to work has declined, and our raising has since averaged only about 50 cargas weekly. The raising will, however, increase this week, in consequence of the communication having been made between the 64 vara level, and the Celestina winze, which will open a good field of ore, to be broken by bargain. The north end of Mayorazgo has continued in ore, opening ground for the buscones. The south end of Entresuelo has cut into the Celestina lode, and now drives upon it eastward. The winze from 64 vara level has been suspended at the depth of 14 varas, owing to the heavy expense of drainage by hand—no ore has been found in this work. The north cross-cut of 64 vara level, having gone through all signs of vein, has also been abandoned; no part of that vein was found worth any trial.

P.S.—Spet. 17.—Since writing the foregoing, the cross-cut No. 3 from San Francisco shaft has cut another wide vein of azogues; from which, probably, 20 cargas will be filled, in going through it; at the same time, a heavy stream of water has been cut, which has filled the shaft almost up to that cross-cut. This has at length drained the winzes of the level No. 2,—and next week we shall be valued are an analysis of the level No. 2,—and next week we shall be able to break eres in them. We shall, however, require our three malacates, to master the water now in the shaft;

Mines.	Pro	fit.			Los	19.	
San Clemente Mine	-	_		 	S 938	4	1
San Nicolas	81692	1	2	 	-	me	
Malanoche	-				844	1	ł
San Rafael	-	-			5839	2	1
Loreto	-	-		 	77	5	4
Santa Barbara	208	2	7	 	_	-	
Celestina	0 1	-			4512	6	3
Disputed ground		-		 	266	4	5
Haciendas	3099	3	7	 	-	-	-
or man I'm you up my lovely shirt	85000	0	0	SI	2,478	7	7
Profit					5000	6	0
Deficiency	1			9	7478	7	7

long had.—W. J. HKNWOOD.

Gold workings, from 1st July to end of August, 54 lbs. 6 oz. 6 dwts.

NATIONAL BRAZILIAN MINES.—Cocaes Mine, August 18.—You may rely on my handing you every information I possibly can relative to my department, which I consider likely to be useful and interesting; but, until our works in the mine are resumed, and our stamps supplied with ores from the auriferous ground, my reports will be very little more than a statement of the work performed from one 10 days to another.

work performed from one 10 days to another.

Extract from Messrs. Freeland & Co. Letter, dated Rio de Janeiro, Sept. 11.

We forward a letter from Jose Feliciano, relative to the Cocaes Mine; he has shown the writer several letters which he has received during his stay here—since May last—in which allusion to the discovery is continually made; it would appear, from what we learn, that no advantage can be derived to bring out the mine fully, without laying out so much as will make, at least, 70 or 80 stamphends, and setting the matter to work actively. It is also the universal opinion, that the mine will amply repay the additional expense which may be incurred, and be one of the most productive in the country; it being a mass of stone on the surface—requiring no timbering whatever, but simply quarrying and stamping down—much expense will be saved in consequence. We gladly mention what is so fully confirmed here, and hope that you will derive the full extent of your wishes in due time. We refer to the letter of Senr. Joze Feliciano. The new stamps are expected to be at work by the 15th Sept.

ciano. The new stamps are expected to be at work by the 15th Sept.

PACHUCA MINES.—Sept. 28.—Rejona.—The lode in San Miguel shaft seems to be improving—a branch near the hanging wall about 1 ft. wide, is looking better than hitherto; a sample produced 11 mes. per monton; but in order that this branch may be taken down clean, it was left to remain all last week; it will, however, be taken down in the course of a day or two, when 1 hope the result will be several quintals of ore. The 60 vara cross-cut has only been driven three quarters of a vara in the last mouth for want of powder.

Experimen.—San Guillermo shaft is sinking on the north or Quemazon lode; assays produced about 12 ozs. of silver per monton. The large sparry lode, in the foot wall, has not been examined; some stones assayed 5½ mes. per monton. We are sinking on the Quemazon lode, being softer; the whole cost being \$8 per vara only, while sinking on the sparry lode would cost \$30. The shaft is now 16 varas deep, and at 26 varas we propose to drive neroes-cut through it.

Guadatage.—Since last month San Pedro shaft has produced, in 24 varas sinking, 26 quintals of ere; 7½ of the best, assayed 38 mcs. per monton; 4½

na, the mint of the confider plan to push cuto the white, below this level, afresh, to Josef Charte, hale the where you suck is published at more parameter, therewere

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quintals, 18½ mes.; 9 quintals, 10½ mes.; and 5 quintals, 15 mes. per menton. The lode presents promising indications, with overy appearance of being mere productive in depth. Nearly the whole of the ground on both ends of the shaft, for the hist 5 varas, will pay for breaking away—the western end will leave good profit. In this trial, I trust we have proved successful. It is true, the quantity of ore is still very small; but when it is borne in mind, that we are working on an entirely new vein of extraordinary width, in a part of the Pachuca district, hitherto unexplored, it must be confessed the indications are very promising.—Expenditure in August (5 weeks), \$888.

second worth. In this trial, I true we have proved successful. It is true, the country top one is still very small; but when it is borne in mind, that we new working on an entirely new veils of extraordinary writh, in a part of the Pachuca district, histories use well of extraordinary writh, in a part of the Pachuca district, histories used to the confessor the indications are very promising.—Expenditure in August (6 weeks), 8888.

REAL DEL MONTE MINES.—Mineral del Monte, Sept 27.—I beg to acknowledge the receipte of your dispatches of July 80, which cause to hand on the confessor of the confes

for 2800.—August (5 weeks): expenditure, 867,206; roturns, 825,713—profit, 815,567.

ST. JOHN DEL REY MINES.—Morro Velho, August 18.—Heads working, 18 days, 57-81; of course, the repairs of the Lyon's stamps are the cause of the diminished number of heads working. The 15 heads work to work effectually on the morning of the 16th, and they are working very well—I expect they will soon make up for lost time. The supply of ore has been fair of late. August 28.—Heads working during 28 days, 61-47—the supply of ore has been middling.

UNITED MEXICAN MINES.—Guanaxuato, Sept. 24.—Mine of Rayas.—There is no favourable change in the workings of this mine; the ores generally have fallen off lately both in quantity and quality. The working of Santa Cecilia does not show any further improvement since my last, and the increase of water in the mine has deprived us of the working of San Simon. I enclose Mr. Glennie's report to the 24th instant. Annexed is the statement of produce and outlay for the last five weeks, compared with that of the five weeks adding Angust the 15th. duce and outlay for the l ending August, the 15th.

149 crease. \$2,423 7 0 81132 2 7 Decrease 81291 4 1

Cs. 149 S2,423 7 0 \$1132 2 7 \$1291 4 1 Decrease. Decreases. Decreases.

The decrease in the sales on Joint account with buscones has been occasioned partly by a failing off in both the quantity and value of the cores extracted, and partly by the great increase in the sales of the mine of La Luz, which has attracted the buyers, and reduced the amount of the sales in all the other mines. The sales of La Luz have now reached an average of \$50,000 per week. The balance-sheet enclosed herewith of the ores reduced in the hacienda of Barrera, in the month of August, reduces the deficiency of the previous month \$8400.5 1 to \$4232 5 7 — which sum will, I expect, be somewhat further decreased by the tortas delivered from Barrera, during the present mouth. The general debt of the mine remains, therefore, unaltered—viz.: \$82,992 2 3.

Quicksilver.—Since my last dispatch, I have received the remainder of my contract with the quicksilver mine of Gaudalcagar, 26 bottles. The first shipment from London, per the May steamer \$Aron\$ (90 bottles), has also at length arrived in Guanaxuato.

Finance:—I beg your reference to the inclosed statement of receipts and disbursements, showing an available asset of \$84,988 1 6, on the 19th of Sept., with a further asset of \$6015 3 2 in Treasury bonds, in the hands of our agents at Mexico.

Zacatecos.—The court may rely upon my keeping in view the San Acaslo claims; but I regret that I must again repeat the little probability there is of their receiving attention at present.

tion at present.

Remittances.—It having been decided, at a meeting of the principal remitters of specie in this city, that the present was a favourable moment for dispatching the conducts, as the roads were clearer of robbers than they have lately been, and a good escort was obtainable; the 25th of September was appointed for the departure of the conductor (J. A. Guerero), for Tampico. I have, therefore, remitted to our agents at that port 10 boxes, containing \$25,000 for shipment, per first steamer, to the order of the chairman of the court. As I have made provision for the payment of duties, freight, and charges, independent of this remittance, the sum of \$2500 will be shipped intact.—W. HEATH.

Report of the State of the Workhove of the Micro of Report of the State of the Workhove of the Micro of Report of the State of the Workhove of the Micro of Report of the State of the Workhove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Morehove of the Micro of Report of the state of the Micro of th

court. As I have made provision for the payment of duties, freight, and charges, independent of this remittance, the sum of \$2500 will be shipped intact. —W. Harts.

Report of the State of the Workings of the Mine of Rayas.

Let Purisina.—Novariation has taken place in the system pursued on this side of the mine.

Sam Lorenzo.—These old workings, although gradually becoming exhausted, are still producing a small quantity of ordinary ores, which are not met with in any particular soft, but are accepact together from any points is which they can be found. Eight pairs of barmen are employed by day, and an equal number by night.

San Sison.—The water has risen and taken possession of this point. The four pares of barmen that worked here by day have been removed to a pillar in the apper part of San Cayetano, where a small quantity of ore is met with. From tip pit of San Pario there is also a small extraction of good ores.

San Miguel.—In the pit of San Dario the narrow threads of ore, of good quality, referred to in last month's report, have nearly disappeared, and the general produce is now of an ordinary quality. An end, opened to the north-west, has been communicated withan old working. There is a small extraction of common ore from the roof of San Dario, and also from San Pedro: 12 pairs of barmen are employed by day, and an equal number by night. Santo Turbio.—Since the last report 7-90 varus have been driven in this cross-cut, in the same kind of ground as mentioned last month. No variation has been observed in the end to the south-east, in which four pairs of barmen are employed as usual.

Santa Cecilia.—A slight investigation of the tole last seem and a study point where the narrow band of ordinary ore was cut, but without any improvement manifesting itself—inasmuch as the lode beneath the band proved quite barren of ore: 440 varas have been driven in the end since the last report; and the only variation observed, consists in some annall bunches of quarts being met with, of a similar character to those found

Some workmen lately employed on works preparatory to the formation of the railroad from Bletchley to Oxford, near Pouden Hill, in the county of Bucks, discovered a vein of coal, which, upon trial, was found to be of very good quality.

LAMHEROOE WHEAL MARIA MINING COMPANY. At a meeting of adventurers, held at the offices of the company, 4, King-cet, Cheapside, on Thursday, the 5th inst.

toport of the Finance Committee to the Meeting of Adventurers, held 5th November, 1846, at the Secretary's Office, 4. King-street, City, London, agreeable to Circular of the Secretary, dated 20th October, 1846.

Report of the Finance Committee to the Meeting of Adherburger, held 3th Normather, 1846, at the Secretary's Office, 4, King-sirect, City, London, agreeable to Gircular of the Secretary, dated 20th October, 1846.

It will be observed, from the report just read from the resident agent, that the engine-shaft requires to be sunk 1 fins. 4 ft. 6 in., previous to driving out the cross-cut at the 35 fm. level, to intersect the F. G. H. I. K. and L. or six southern lodes; while Darey's shaft will require to be sunk about 10 fms., when a cross-cut north will be taken up to meet that proposed to be driven from the engine-shaft. The monthly coat will in ne way be increased, insonned as the most employed in the shaft will these be placed in the respective cross-cuts, so as to facilitate, as much as possible, the development of the mine, by intersecting the several icides. It will be observed by Capt. Tabb's report, that the 10 J lode has been intersected in sinking Davey's shaft, to which may, in some measure, it is presumed, be attributed the increase of water in the shaft. This lode having, however, been only just pierced, the committee have not at present the means of reporting upon it; but, from information acquired, they consider it may be prudent to explore it at the present depth, or shallow level, by driving on the lode. This, however, is a point which caunot be determined, until its indications are more fully developed. It is assumed that the I lode, already referred to, will be intersected at about 25 fms. from surface in sinking Davey's shaft, according to its present underlay. The committee, having considered it prudent to limit the expenditure to the principal objects in view—viz.: shaking with as much facility as possible the two shafts, so as to arrive at the points from which the cross-cuts north and south will be driven. The expenditure, antecedent to the next meeting of adventurers, may be calculated at from 2004 to 23th monthly, which they consider will be its full extent. The concurrent testimony of the

The statement of accounts showed the amount of calls, amounting to 31. per hare, 61441; to liabilities, 14991, 9s. 1d. = 76431, 9s. 1d.—By costs to end of september, 68871, 19s. 3d.; arrears of calls due, 3131, 5s.; balance of cash at ankers, 4421, 13s. 10d. = 76431, 9s. 1d.

share, 6144.; to habilities, 1499. 9s. 1d. — 7643. 9s. 1d. — By costs to end of September, 6887. 10s. 3d.; arrears of calls due, 313. 5s.; balance of cash at bankers, 442. 13s. 10d. — 7643. 9s. 1d.

The Charlman, in addressing the meeting, observed, that the committee would be happy to afford any additional information to the adventurers, beyond that conveyed in the report which had been submitted, and which, he believed, contained the principal points to which their attention should be at the present time directed—viz.; the prosecution to the operations in sinking the two shafts, with the view of driving a cross-cut to intersect the several lodes at a depth of 96 fms. from surface. The meeting would observe, that the present operations were confined to these two points, and thus limiting the expenditure, which he did not consider would exceed 2207. to 2301. monthly; indeed, antecedent to the next (two-monthly) meeting, the present balance at the bankers was, in his opinion, ample to meet the current expenses. It was, however, to be borne in mind, that the committee were under acceptance, which must be provided for, and hence the necessity of calling the attention of the shareholders present to the call previously made; but the period of payment of which had not yet been determined by the committee, to whom, however, full powers had been given. It would be, he might observe, more satisfactory to the committee, if the meeting would express their opinion.

Mr. Davy, as one of the committee, fully concurred in the views conveyed by the chairman: he, as a member of the committee, considered that it would be very preferable for the proprietors to pass a vote, to justify them in making a call, or rather in prescribing the time and amount; they were there assembled, and he should be glad if a resolution, declaratory of their opinions, should be passed, and thus doubly arm the committee, in the remaining 10s. at such subsequent period as the committee might deem fit.

The Chairman directed the attention of the meeting

man, the meeting, after passing the several resonators, and relating columns, and passing a vote of thanks to the chairman, separated.

Craddock Moor.—At a meeting of adventurers, held at Liskeard, on the 28th October, the accounts were presented, showing labour cost for July and Aug., 1884. 3s. 8d.; materials, 99f. 3s. 5d.; balance of last account, 213f. 16s. 5d.—total, 50f. 8s. 6d.—By materials sold, 9s. 3d.; call made at last meeting, 369f.; leaving balance against the mine, 140f. 19s. 8d.—The accounts having been allowed and passed, a call of 1f. 10s. was made, payable at the Devog and Cornwall Bank. The following report from Capt. J. Nance was read to the meeting;—In consequence of an accident to our lift, we have been prevented from accomplishing the object at which we have been aiming—viz.: the taking down of the lode in the north shaft, which we anticipate will prove a good lode. In consequence of the lode having taken a more vertical dip, we were obliged to take down some ground, which would otherwise have prevented our following it. This we had nearly accomplished when the accident occurred, and we are, therefore, prevented from reporting upon it further, than that, as far as we have seen the wall, it is orey, and, at the point where it alters its underlie, there is a branch of ore 12 in. wide—this is about 2 fms. above the present bettom. The accident is now repaired, and the water is forking slowly, the floods having caused a great increase of water; and, as soon as it is cleared, we shall commence working upon the lode; the depth of this shaft is 24 fms. The south shaft is sunk j fms. 5 ft. in the past two months, and is now 15 fms. deep, and the lode in 15 fms. for in the past two months, and is now 15 fms. deep, and the lode in 15 fms. for in the past two months, and is now 15 fms. deep, and the lode in 15 fms. felt in the granite, and parellel with it, small veins of ore. The present vice for sinking this shaft is 27L per fm.

Gosamena.—At a meeting of adventurers, held at Liskeard, on the 28th

— The accounts were allowed and passed, and a call of 2l. per share made, payable at the Devon and Cornwall Bank, Liskeard.

Great Michell. Cossois.—At a meeting of adventurers, held on Thursday, the 5th inst., at the offices of the company,—C. Balley, Esq., in the chair,—the notice convening the meeting, and the report of Capt. Thomas Richards, of the 3d inst, having been read, a statement of the cost to the end of Sept, accompanied by the cost sheets, amounting to 1802l. 5s. 2d., which showed a balance of 522l. 5s. 2d. against the company, after giving credit for the call of 10s, per share made the 12th Jan. last, was submitted; when it was resolved that to liquidate the above balance, and provide for future workings, a call of 10s, per share be made, payable at the London office, on or before the 15th inst.—[The captain's report will be found among our Mining Correspondence.]

SOUTH FRIENDSHIP WIKAL ANNE.—The meeting held on the 26th ut. (of which we gave a brief notice last week) was for t. e purpose of forfeiting some of the shares, on which the calls were not paid, and making a further call; as the following resolutions, which were then proposad and passed, will explain:—That all shares, having their calls now unpaid, be declared absolutely forfeited; that the same be now transferred into the name of the purser.—That a call of 10s, per share be now made, to be paid within 2t days into the banking-house of Mesars. Gill and Rundle, to the credit of the purser; and that a general meeting of shareholders be held at the count-house of the misse on the 23d of November.

South Yeoland.—At a meeting of adventurers, held at Liekeard, on the

South Yeoland.—At a meeting of adventurers, held at Liakeard, on the 29th October, the accounts were presented, showing, as received on call made at last meeting, 128t; balance of last account, 15t. 3s. 4d. total, 149t. 3s. 8d.—By half cests of Yeoland Consols for July and Angust, 46t is 2d.; Devon and Cornwall bank charges, 3t. 8s. 10d.; leaving balance in favour of adventurers, 3st. 13s. 8d.—The accounts were allowed and peased. The following report of Yeoland Consols, from Capt. T. Trelease, was read at the meeting:—Croker's engine-shaft is sunk about 52 fms. under the adit level. At the 36 fm.

level a lode was discovered therein; and explored on dast of the said shaft about 36 fms., and also about 15 fms. west. In this distance it varied in width from 1 to 3ft, consisting chiefly of peach and querys, and in various places apots of yellow copper ore. The agne lode was also discovered at the 50 fm. level, and extended on both east and west of the cross-course, in all about 6 fms. in leagth; but, with the exception of a little more prian being found in it at this level, and its underlie being greater, we were induced by the contents were similar to those of the lode in the level above (30). From its character in byth level-materially differing from that of G lode in the adit level, and its underlie being greater, we were induced by this we were not operating on the right lode (6) and, to preve this, it was judged advisable to cross-out south. We drove accordingly about 8 fms., and cut a lode, which has been extended on west about 2 fms. At the point where first discovered; its width was about 10 in, showing a Breby fooling spar, numbre, exc., with good spots of yellow copper ors; its underlie is from 12 to 15 in, per fm. From these circumstances, or an include the state of the present more likely to prove productive than the former lode. In order to see more of it, a cross-cut is now in driving some 26 fms. farther east than at the point where it is already discovered; and as we have now a full supply of water for the pressure engine, we shall probably drain the 50 fm. feverin about 10 days from this date, from whence also we shall be able to cross-cut to the new lode.

Torks super,—At a meeting of adventurers, held at Liekeard, on the 29th Oct., the accounts were presented, showing labour cost for July and August, and the productive form the same level (65) to a long the show the same and to the meeting included the same level (65) to a long the show the same and a long that the following report from Capt. The 65 fm. cross-course dout 7 fms.; its width is about 1 fm. consting of peach and quarts. The s

this 12 fms. goas.ms. &c., have been met with nor 12 or 12 is. it sengan, our at a very confused and unsettled state, forming nothing of a regular lode; and though suspicious whether this will not turn out to be D lode, we shall, he further proof, continue the said cross-cut 2 or 8 fms. further, especially so as these gessame do not correspond with the character of the lode in the addit level directly over.

West CAARDON.—At a meeting of adventures, held at Liskeard, on the 28th Oct., the accounts were presented, showing amount received for copper ores, 4907. Be. 30, 1 materials, 527.8s. 10d.; balance of fast account; 2507.14s. 2d. —74977. 7s. 3d. Hy labour cost for July and August, 27950. 7s. 10d.; materials, 11482. 10s. 11d.; brid's dues, 3002. 12s. 6d.; dividend, 6½. For shame, 16c4.—leaving balance in purser's hands of 19856. 6s.

West UNTERD HILLS.—I In our last, we gave a brief report of the proceedings at the meeting of shareholders, held on the 22d Oct., but, having since received the official statement, we now append some further particulars, and the captain's report cutire—a course we shall always readily adopt whe favoured with the necessary copies from the agonts.—The accounts presented were for April, May, June, July, and August.—showing bolance due from adventurers to purser, 1366. 1st. 11d.—whitch, having been examined, were allowed and passed, and a call of 12. per share made, payable immediated one from adventurers to purser, the managing agent of the mine being unavoidably absent at the time of the meeting.—By your desire, I inspected West. United Hills Aline, or Thursday the 22d inst, and they to continue the diving the cross-cut north, and the mundic lode east, at the saitic level.—The following separt; from Capt. John Lean, was agiven at the request of the purser, for the west-missable, the consecut, the meeting of the request of the purser, for the west-missable to the dustant adventurers, the managing agent of the mine being unavoidably absent at the time of the meeting. The pursers of th

in which, 40 to 50 fins, back from the present end, we passed through a little bunch of grey ore. The productive lodes of Levent and Botallack being in a north and south direction, and in the same kind of ground, we are hoping that this lode will turn out well. The water and atuff continues to be drawn very cheaply by a water-wheel.

WHEAL MARY CONSOLS.—At a meeting of adventurers, held at Liskeard, on

Wheat Many Coxsols.—At a meeting of adventurers, held at Liskeard, on the 29th ult., the accounts were presented, showing labour cost for July and Aug., 5064 10s. 64; materials, 7064 2s. 24; balance, last account, 11904 17s. 11d.; total 24054 10s. 6d.—By sale of materials, 83f. 8s.; call made at last meeting, 12602; teaving present balance against the mine of 1002f. 2s. 6d.—The accounts were allowed and passed, and a call of 4l. per share made, payable at the Devon and Cornwall Bank, Liskeard.—The following report from Capts. J. Nance and H. Taylor was read to the meeting; —Since our last report, our operations upon Wheal Mary lode have not undergone any material alteration, with the exception of the 50 fm., level going west, and the 60 fm. level going east. The 50 fm. level west has been (during nearly the whole of the intervening period), productive of good stones of ore, and is improving as we approach under where there was a good course of ore in the 40 above. Within the last few weeks the 60 fm. level cast has also improved, and is now productive of some stones of ore. The new south lode in the weatern end, of the 25 fm. level, is about 18 in. wide, and composed of quartz, peach, numdic, and good stones of ore, and underlying south about 12 to 18 in. per fathom. In the eastern end, at the same level, it about 9 in. wide, centaming good atones of ore throughout, but more particularly towards the bottom. This level is extended enthis lode 20 fms, and has been productive of one for nearly the whole length, but particularly for about 7 fms. long, it having passed through a good course of eve of that length

18 to 24 in. wide. The cross-cut driving south of the 25 fm. level, from the count-house shaft towards, the new south lock, is extended 34 fm., leaving about 6 fms. more to drive to interprect it, supposing its bearing to be parallel with Wheal Mary old lude. This cross-cut is about 100 fms. west of the cross-cut which finst intersected this lock. The 50 fm. level cross-cut driving not the towards this lock has been extended 10 fms. dince the less meeting, through ground rather listed. The cross-cut driving north, at the 25 fm. level, towards Wheal Sisters lode, appears to be approaching near to it, the killies, through which it is now being driven, is very much softer, and its appearances more congenial for mineral than it has yet been. The 76 cross-cut driving normal is much harder, but we expect it will some become more elsey for driving as it approaches the lode. Our opinion of the concern is still unchanged: the present appearances of the lode now going down are highly encouraging; and with the number of side lodes still unexplored and entire, and the facilities which we have for exploring them, we cannot but think that it will make a highly remanerative apeculation. We expect to sell about 50 tone of one in two weeks.

Whigh Sisters love a translated—showing labour cost for July and August as 6481. 18s. 14t.; materials, 16th. 19th. 4d. 1 lond; slues, 26th. 8d. a balance of inst account, 316th. 11s. 9d.; total smount, 1136t. 4s. 8d. by saile of copper ore, 18th. 4s. 2d.; call made at last meeting, 512.—leaving balance against the mine of 207t. 11s. 6d.—The accounts having been allowed and passed, a call to 2t. per abare was made, payable at the Devon and Cornwall Hauk, Liskonal.—The following report from Capt. J. Nance was read to the meeting its Since our last meeting we have agreeably to the resolutions then entered into, purchased a good econipleted. The interpretal state that, "in consequence of the present slow and expensive mode of drawing and crushing, our operations are very much capt. In the conse

#### LIABILITY OF MINING ADVENTURERS-WHEAL PROVIDENCE.

COURT OF COMMON PLEAS—NOV. 4.

RICKETTS AND AMOTRES \*. BINN AND ANOTHER—In this case Mr. Crowder, Q.C. neved for a rule size for a new real, on the grounds of misdirection, and also that the

RICKETTS AND ANSTREER. BINN AND ANOTHER. It this case Mr. Crowder, Q.C., moved for a rule size for a new trial, on the grounds of misdilectren, and also that the verdict was against evidence.

The action was tried before Mr. Baron Plattin Cornwall, at the last assistes, and the jury found a verticet for the defendants. The plainting in this case are bunkers at Trure, and sought to recover the balance of studie account with the adventurers of the Wheil Providence Mine, of whom the defendants are two: and the question in this cases was as to the Hability of the defendants to the bankers for this balance of account, which sminumed to \$6681. The banking account was opened at the end of the year 1844, by a person named Alexander Robinson, who was also the purser and an adventurer in the mine. For some time the mine was worked very profitably. The individual who weat to the bank, and to whom the pass-book was minded, was alexander Robinson, who was also the purser and an adventurer in the mine. For some time the mine was worked very profitably. The individual who weat to the bank and to whom the pass-book was minded, was alexander Robinson, the eider. The defence was, that the defendants were not liable. There was no doubt that the defendants were adventurers, taking the profits of the mine; but it was contended that, in point of law, none of those co-adventurers had authority to borrow money to bind the others. The money in question had been obtained from the bank for machinery by Robinson, which had not answered. This was the evidence. On this definice, the learned judge who tried this case directed the jury that there was a difference between partnerships of this sort and profinary partnerships, and left it to the jury to decide whether Robinson had express authority to borrow this money on his credit of the definition.

The learned counsel proceeded to contend that he relation of ce-adventurers is a mining concern was sufficient to authority had been extended by any subsequent decision, but on the contrary. In su

WHEAL CURTIS.—This company, which we have noticed on two previous occasions, is, we are informed, progressing satisfactorily, and capitalists are beginning to appreciate the position and prospects of the mine—the shafts being sunk to 60 fms, and various levels epened; the mine is ready, or the arection of an engine, to proceed to immediate returns. That the mine is one of considerable promise, may be inferred from the fact, that 10,000 tworth of ore has been raised from shallow levels; and from the 12th of August, 1841, to January. 1844, 23 years, the ore sold amounted to 45611.12s. 8d. Since our last notice, considerable progress has been made. The new shaft is already sunk to adit within the estimate; the engine-house, still in course, is far above foundation; excellent granite stones procured and delivered on spot, for supporting the beam of the engine; masses of other stones quarried and delivered on the spot for other parts of the buildings; the blacksmith's shop and counting-house completed. Of the five other lodes of the Whal Curtis set, before alfuded to, one has been explored, and found even superior to that which is especially the subject of this and the former notice. This is called the Charlotte lode; it is about 50 fms, distant from the site of the engine, which call work it also by means of flat-rods. The shart of the Charlotte lode is sunk 20 fms, so that a prospect now presents itself of greatly increased value. It is fully expected that the steam-engine will be at work by the 1st of January, mext; and that ore will be ready for sampling in two months afterwards. We understand that 1500 of the shares have had the deposit paid upon them, and a large portion of the remainder allotted.

Victionia Mining Company.—This company is formed for the purpose of WHEAL CURTIS.—This company, which we have noticed on two previous The same

of the ranginder allotted.

Victoria Mining Company. This company is formed for the purpose of working the mine formerly heavy as Wheal Fortune Consols, with other setts is tuated in the parish of St. Stephens Branwell, in Cernwall, adjoining St. Denis parish: they are held under a lease of 21 years, and at 1-15th dues. The combined setts are very externive, and sie considered highly promising; eight lodes are known to exist, some of them from 4 to 6 ft, wide; the reports of, several experienced mine agents are of a highly satisfactory and encouraging nature. Capt. J. Chynoweth states, "the sett extends about 400 fms. on the course of the lodes; the sett is really a very desirable one, madi its in yopinion that it is one of the best tim actts in Cornwall: I hope you will get to work upon it before the winter commences; it is if fine piece of ground for mining, and I never was more taken up with any sett Phave seen. "—On the 20th ult. be writes—"I congratulate you and all cancerned on the fine discovery that has just been made in Wheal Fortune Consols Mines; you well know that we have been bringing home a lobby to intersect the caunter lodes, from which we have discovered our main object. The lode is from 4 to 5 ft. wide, and of good saving tinstuff throughout the lode, and returns can be at once made when our shaft is down 10 fms. Shares will be sought after in the Wheal Fortune Consols Mines belyonal all other mines in Cornwall."—And Capt. Julian, on the same date, writes. "I have great pleasure in informing you, that yesterday, about 4 r. M. our men entitled to the sum of the best discovery that has been made for many years in this our sett, and with nebody to interfere with us. The lode is altogether nearly solid tin, and is the best discovery that has been made for many years in this our sett, and with mechanics in the conner, running about a mile in length in our sett, and with mechanics in the conner, running about a mile in length in our sett, and with mechanics in the conner, running about a mile in len PIA MINING COMPANY

West Wheat Marra.—Notices have been received from the secretary (J. Bayley, Esq.), convening a special general meeting of the shareholders for Saturday, the 14th inst., for the purpose of viewing the steam engine and machinery (now at work)—to receive a report from the committee—to audit and pass the accounts—to proceed to the appointment of the permanent officers of the company—and to decide on the mode and scale of working, for most specially and effectually returning the produce of the mine.—The engine commenced her duty on Friday last, and is stated to work admirably.

#### MINING IN MERIONETASHINE NEW COMPANY.

MINING IN MERIONATABHIRE—ABW COMPANY.

Sing The ibhabitants of this quiet place, especially these connected with mining enterpies, have been quite excited within the last week by the circulation of a prospectus headed? The North Wales Bitver, Lead, Coppus, and Gold Mining Company, in which it is set forth that good to a most occurrence of the continuous extent—I do at one of gessan—exists in this neighbourhood, on properly feased as Mr. James Harvey, of this tewn, who, it appears, has consented to the state of the control of the state of 60,000l. You can, therefore, well suppose that the whole locality is or the tippe of excellencer, and crever body looking out for an equal quantity of the processing the control of the state of the control of the co

WEST UNITED HILLS MINE.

WEST UNITED HILLS MINE.

TO THE BOITON OF THE MINING JOERNAL.

WEST UNITED HILLS MINE.

TO THE BOITON OF THE MINING JOERNAL.

SIR.—Observing a letter in your last week's Number from a correspondent, remarking on the imperfect state of your share list, I beg to suggest for that gentleman s information, that had he exercised but a prudent, and, I would add, the necessary procaution, of inquiring of some respectable mining share agent the price of these, or other, shares, he would readily have ascertained the market price, and thus have saved himself from gress imposition. The price of West United Hills, as quoted in the Journal of last week is, about the himit generally given by the vendors from the county, although I had instructions last week to sell these shares at 30s, per share, inclusive of a call of 25s, made on the 22d ult. (which meeting you published in Saturday's Number); and my order did not limit me to that as the minimum price. If it were of any satisfaction to your correspondent, I am prepared to show him, or any other person, my instructions any day I may be favoured with a call, while I am at all times ready to furnish information to your subscribers.

William Tremerry.

Threadneade-street, City, Nov. 5.

#### Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Sa'urday morning, Twelve o'clock Bank Stock, 7 per Cont., 2014 3.3 8 per Cent. Reduced Ann., 934 3 per Cent. Consols Ann., 943 3 per Cent. Annaties, 943 34 per Cent. Annaties, 943 24 per Cent. Annaties, 953 Long Annaties, 953 India Stock, 104 per Cent., 257 3 per Cent. Consols for Acc., 944 Exchequer Bills, 1000t., 13 14 pm. bestollto

TR EXCHANOS, Salunday morning, Twelve or DIT 1/2 Belgian Books, 45 per Cents., 942 Dutch. 25 per Cents., 952 Beauting of Beauting, 5 per Cents., 953 and 1 per Cents., 954 per Cents., 955 per Cents.

per Cent. Consols for Acc., 44 Excheques Bills, 1900t., 13 14 pm. Ruslan, 5 per Cents., 2000t., 13 14 pm. Ruslan, 5 per Cents., 2000t., 2000t., 13 14 pm. Ruslan, 5 per Cents., 2000t., 2000t.

condition to the week less tuniness was done in heavy shares, but prices have reseashed firm.

East Anglian Libes.—These lines have been leased to the Eastern Counties of the Restern Counties of the Restern Counties.

East Anglian Libes.—These lines have been leased to the Eastern Counties of the Restern Counties.

Merricos.—The following meeting to consider the propriety of again applying to the Restern Counties.

Merricos.—The following meeting to consider the propriety of again applying to Parliament, to carry out the project. The general feeling was adverse to the proposal. It was stared that Capt. Richardson had been formally roted out of the direction; the which of the circumstances connected with the case were gone into, and a great deal of filedicus discussion was entered into, which will probably form nanter for judicial inquiry.—Lorson and North Wertern; special meeting to consider the propriety of ratifying the agreement with the Birmingham, richined, and Manchester, and Rugby and Leanington Companies: the agreement with the Birmingham, richined, and Manchester, and Rugby and Leanington special meeting to empower directors to begrow money to form, line to docks; it was agreed to borrow 100,000.—Lorsons, Housestow, and North Western America to the proposed in the lines.—A very full beard-meeting of the Lorson and Angreed to borrow 100,000.—Lorson, Housestow, and North Western Investigate the lines.—A very full beard-meeting of the Lorson arrangement, with the Birmingham and Chaffed Junction line. The decision, if any was arrived at, was kept a profound secret. Last Coast: under Dissolution, Act—number of shares present, 2800; for dissolution, 280; aquints, 2340.—Mischam; for raising additional capital for the works under consideration, granted by Acts last session, which would in all amount to 2,567,000.; agreed to —Nanchestra, superical public for the shares from 20. to 96, 2s.—the line having been shortened, and the capital peduced.

Manchestera, Supervister, and Mirlann Dissortened, and the capital

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	Direct Northern 501 shares	nethis on	poul <b>ce</b> lince
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	East Lincolnshire 50 Shares 50 Shares 12	abad burk	teila Bino
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	Great Western - 7007 shares	d sid 38 ad L	rnal 39
	Guidford, Parchins, and Portmouth—507, shares 444, 55 Hull and Sciby—50/ chares 444, 50 Lancaster and Carlide—50/ shares 44, 44, 44, 44, 44, 45, 46, 46, 46, 46, 46, 46, 46, 46, 46, 46	25 108 10 M	witeorman
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	Lynn and Ely—25l. shares	15.	16
	Manchester and Birmingham—40/ shares	105	106
	Manchester, Buxton, and Matlock -20/shares 423	1 pm.	13 pm.
	Manchester and Sosthampton 22 Midland Stock Dittl Winningham and Derby Stock	1331	1341
	Newcastle and Berwick -25t shares 20	321	107 33
	North British-25/ shares 25	354	371
	Northern and Eastern—50f shares	rich With a	rifuune od
	Oxford: Worcester, and Wolverhampton	6	2% pm. 64
	Portsmeutil Direct50/ shares         38           Preston and Wyre25/ shares         25           Ricinnond20/ shares         15	36 A	354
	Scottish Central—25/ shares	201	201
	Scottish Midland—251 shares	onte 118 A	131
	Shrewsbury and Birmingham 3 South Devon—507 shures 35	iteot:36	28
	South Midland—20/ shares	371	R Wistrict
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	Waterford and Kilkenny 11 Welsh Hidland 2	out 6 anth	5 dis.
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	Printed the State of the State		

YVASVOD BALLWAY: SHARE: LISTUT STOTEM

### 140 . too . RAILWAY TRAFFIC RETURNS. To 1 . to 2 . date

From these returns, it will be seen, that the amount of traffic for the last week, on nearly 2760 miles of railway, was 153,3681, thus accounted for :—\$1,3401 for the conveyance of passengers only, 39,7001 for the carriage of goods, and a remainder of 32,2281 for passengers. gers and goods together, not respectively apportioned; being an increase over the sponding week of last year of 11,635J.

Name of Railway.	Lgth	Present ac-	Last	Traffic Returns.			
stlett has appeared in the mining			Div	u adi 1846 di-	1845		
Arbroath and Forfar	15	£142,900	3 p. c.	£ 217 10 104	£ 143		
Chester and Birkenhead	10 15 76	658,293	24	520 4 2	594		
Dublin and Drogheda		699,975	DE DE DEL	750 6 2	761		
Dublin and Kingstown		349,736	Audut 3	1456 8 1	1485		
Dundee and Arbroath		156,324	6	351 14 4	309		
Durham and Sunderland		302,118	01 2075	687 3 3	713		
E. Counties & North & East		4,746,118	9	9309 6 10	6695		
Eastern Union at 1220.140.70		countrait disc	II DE IN	418 0 0	reasonan		
Edinburgh and Glasgow		2,112,136	n Chillin	3714 3 4	2849		
Glasgow, Paisley, and Ayr		1,301,381	Allere L	2116 4 6	1899		
Glasgow, Paisley, & Greenock		629,127	OTATE S	923 .15 4	801		
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Great Western	241	8,685,695	mognitor.	18538 19 0	18678		
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London and North Western	4401	16,327,526	10	39098 3 11	38162.		
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London & Brighton & South Coast		4,670,721	ON PLUTT	7638 15 4	549		
London and South-Western		3,648,547	101	6231 15 51	6564		
Manchester & Leeds	117	4,636,556	8	8992 5 3	6689		
Manchester, Bolton, & Bury		842,725	54000	PADRET TERM DATE	9.6		
Midland Company	331	8,831,195	CONTRACTOR	17863 14 6	17749		
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Norfolk mariantenessing	59	985,08010	priditel	1530 13 11	301277 q		
North British	122	1,461,195	V. Japanes V.	1169:11 1	England		
Preston and Wyrer-	29	432,014	2000	655 6 5	19(4900)		
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York and North Midlend	162	2,092,979	10:	6226 8 4	DT 5294 T		
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Orleans and Bordeaux	72	599,040	risted for	1049 0 0	that-Cur		
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COAL MARKET, LONDON.

PRICE OF COAL PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Bates's West Hartley 19—Conndon Hartley 16 6—Chester Main 18 3—Fenham Hartley 16—Grace's Hartley 19—Conndon Hartley 16 6—New Tunheld 15 6—North Percy Hartley 19—Origan Tamfield 15 6—North Redheeph 16—Taylor's West Hartley 18—Townley 17—West Hartley 20—Wall's End Benslam 17 6—Hedley's Beamish 18—Riddel's 19 3—Wester 19 3—Harddyl's Helton 21 3—Harvell 21 6—Hetton 21 3—Lunkey 20—North Durham 18—Stewart's 21 3—Whitwell 19 6—South Kellee 20 6—Adolaide Tees 20 9—Cowndon Tees 19 3—South Durham 19 6—Tees 21 3—Cowpen Hartley 19 6—Derwentwater Hartley 19—Sidney Hartley 19 6—Sings at market, 64; 801d, 31; ansold, 17.

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10	We should feel greatly obliged by agent	s, or others interested, furnishing us with

We should feel greatly oblined by agents, or others interested, furnishing us with which corrections for our Share List as we may not have received through our usual channels of information—our object being, to present as accorded a tist of prices wich he obtained—to procure which, we solicit the aid of correspondents in general.

#### LATEST CURRENT PRICES OF METALS.

nwall, adjoining St. Den	LONDON, NOVEMBER 6, 1845, dained ent of beland	8
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Best selected	o Net easily of a Discount of per cent, wild d D	itto

s Ju kegs à and 4 inch. Discount 3 per cent. J. Ditto 24 per cent. A Net cash. In bond. Librount 3 per cent. Librount 14 per cent. Librount 14 per cent. Se Discount 14 per

Beamish 18—Riddell's 19 3—Walker 19 3—Braddyll's Hetton 21 3—Haswell 21 6—Hitter 21 3—Lumby 20—North Durham 18—Stewart's 21 3—Whitwell 19 6—South Kellee 20 6—Adelaide fees 30 9—Cowndon Tees 19 3—South Durham 19 6—Tees 21 3—Cowney 13 4—Rattley 19 6—Derwentwater Rartley 19—South Durham 19 6—Tees 21 3—Cowney 14 per cent.

WEDNESDAY.—Adair's Main 16—Fanham Hartley 16—Grace's Hartley 17—Hasting's Hartley 19 3—Holywell Main 19—Nelson's West Hartley 19 3—New Tansield 15-6—Ord's Redhength 16—Taylor's West Hartley 19 3—South 19 3—Holywell Main 16—Davison's West Hartley 19 3—South 19 3—Edem Main 16—Davison's West Hartley 19 3—South 19 3—Holywell Main 16—Davison's West Hartley 19 3—South 19 3—Holymen 19 3—Holy

demand for this description is considerably abated. Coke is in better request, and the stocks unparally low; but as the makers can now turn their attention to the manufacture of this quality, the market will, no doubt, soon he well supplied.

Lead is rather dull, and we quoty it at 5s, to its, leave than on its lift.

Servins for rather dull, and we quoty it at 5s, to its, leave than on its lift.

Servins for this reacher dull, and we quoty it at 5s, to its, leave than on its lift.

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Servins for the term of the state of the leave than on the lift of the purchase of about 250 to 300 tons at 181, 15s, the price railied. Independently of those transactions, the sale is month when very very sew, and these almost evolutively for home, use. The stock on hand to-day is 2500 tons.

Leon.—The PORT.—Servins in the early part of last month was in fair demand, about 200 tons having changed hands at 161 15s, per ton. Which the last five days some queels have been descred in the market, without hading buyen above 162 the 15s. The stock on the last first, was 2500 tens.

Leon.—The glish from of every description continues in brisk demand, at full prices, and several extensive contracts for rails were made during last month, both far home and several extensive contracts for rails were made during last month, both far home and several axtensive contracts for rails were made during last month, both far home and several axtensive contracts for rails were made varying from \$7.5 d. to 700 the far home and several extensive contracts for rails were made during last month, and 12s. to 72s. to find the last far and the last far and the several large of the makers have sold mixed host, and for a price of the makers have sold mixed host, and several large of the last far had a several large the far during last month, at prices varying from \$7.5 d. to 70s. for mixed Nos., and 72s. to 72s. tel. for No. 1, delivered at Ghagow, and for a pring delivery some of the makers ha

than last month.

GLASGOW PIG-IRON TRADE.

Nov. 4.—Since the date off our last communication, our market has been rather languid, and the price of pig-iron has slightly declined. A moderate unionate of business has been done, and the price may now be quicted at 68. 66. No. 5. 4. 69. 66. for mixed Nos.; and 74s. 66. for No. 14. Cash, free on board.

DOUGLAS & HILL, Metal Brokers.

EXPORTS OF METALS TO INDIA FROM LONDON AND LIVERPOOL.

FOR THE FIRST TI	EN MONTHS O	1 1840 AND 1	840.
	1845.	1846. Ju.	iu 1846. Dec. in 1846.
. Spelter Tons	2688	4502	
Copper	3977	2997	960
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Tin-plates			
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Steel	1501	723	10 Want 970
Steel	233	755	529 Shioman
THURSTED ST. 2001 St. !(05), 13431, alt	THE BILL DA	DISTRET STO	to though being the L'

LEEDS, FRIDAY.—There has been more than the usual amount of business done in our Stock Exchange during the week, and prices, almost stitude exception, have improved. The negotiations going on between the London and North-Western, and Leeds and Dewsbury, and Huddersfield and Manchester Companies, are likely, it is said, to be brought to a satisfactory termination. We have had Dewsburys to-day at 1147 pm, and Huddersfield and Manchesters at 517 pm. Leeds and Thirsks are firm with wild the satisfactory termination. We have had Dewsburys to-day at 1147 pm, and Huddersfield and Manchesters at 517 pm. Leeds and Thirsks are firm wild the satisfactory termination. We have had been done at 424 pm.

HULLS, THURSDAY.—The market remains steady, without particular alteration of any kind. North British, Birmingham and Oxford, Leeds and Dewsbury, and Calabonian, are favourably influenced by prospective arrangements with older lines—they have made satisfactory terms with the London and North-Western stock, but the shares remain at the old rates. Ormskirks have advanced, and North Staffords are slightly better. The new preference shares of the York and North Midland, and Xork and Novcessie, are in request at improved prices.

# MEETINGS OF SCIENTIFIC BODIES DURING THE WEEK. | Content | Cont

M ERIONETHSHIRE SLATE & SLATE SLAB COMPANY. —Notice is hereby given, that NO APPLICATION for SHARES in this comparation of the MONDAY, the 9th of Nov. next, after which the allests immediately proceeded with.—7, Copthall-court, Oct. 30, 1846.

VICTORIA TIN MINING COMPANY (late the Wheal Fortune Consols, and other Setts)—NOTICE.—APPLICATIONS for SHARES in this company will NOT be RECEIVED after Monday next, the 9th lust.

1, Copthall-chambers, London, Nov. 6, 1846 By order, W. H. SMITH, Sec. O

COPPER ORES.

Sampled Oct. 21, and Sold at Andrew's Hotel, Redruth, Nov. 5, 1846.

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North Roskear 110	18 0 de .	
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COMPANIES BY WHOM THE ORES WERE PURCHASED.

71 400 11 demoner Total tonsissered say, west . 3535 ince £19,705 12 20

Copper over for sale on Thursday part, at Andrew's Hotel, Bedruit.—Mines and Parcels.—Cara Brea Mines 769—Inited Hills 367—Wheal Propers 274—Par Consols 252—Loyant 180.—Theory Couole 100—Africa Consols 195—Street Colors and Parcels of West Wheal Treasury 53—Michell's Ore 36—Cara Perran 35—North Wheal Bases 95—St. Tree Consols 20—Wheal Agar 20—Givinest Unnels 19—Redruit Consols 16—Wheal Party 8—Total, 2359 tons:

Copper over for Sale on Thursday week, at Peacoca-Horty Truco.—Mines and Parcels—Dev on Great Consols, Wheal Maria, and Wheal Fauny 1829—Pedice 356—Wheal Pricaship 261—West Caradon 243—Fawey Consols 260—Sputh Towan 163—Wheal devol 140—Hollandship 164—Beford United Mines 38—Hallanbasels 74—West United O—West Wheal Towan 18.—Total, 2522 tons.

At SWANSEA, for Sale, Nov. 11.—Colors lest, ditto 90, ditto 82, ditto 80, ditto 75, de — Santhago 83, ditto 80, ditto 76, ditto 72, ditto 84, ditto 90 — Colors 180, ditto 80, d

METROPOLITAN IRON AND STEEL COMPANY (Provisionally Rugistered, pursuant to Act of Parliament, 7 and 8 Vic., c. 110.)
Capital 200,000, in 10,000 stares of 250 ench.—Deposit 22 per share, pany has been formed for the LANUFACTURE OF IRON AND STEEL (from rap, and all descriptions of old refuse from), which shall be of a superior quality altherto produced in the mining districts.—The objects of the company are fully all fat the recompenies.

any hitherto produced in the mining districts.—The objects of the company are fully plained in the prespective.

In allotting the shares a preference will be given to parties in the fron trade.

Applications for nhares and prospectuace to be made to Mr. Charles Chilton, No. 20 orgato-street; or at the Steam Mills, 185, Old-street.

DATENT KAMPTULICON COMPANY, 18, CORNHILL 

IMPORTANT TO RAILWAY COMPANIES.

PATENT KAMPTULICON COMPANY, 18, CORNHILL.

This company having completed their new factory, are prepared to supply railway managers and contractors with an elastic material (perfectly non-absorbent) to place be seen the rails and sleepers, and between the frames and bodies of carriages, to prevent arring, and, consequently, wear and tear. The clastic planking is strongly recommended to be used for the backs and sides of carriages, to prevent splinters when accidents occars.

By order of the board, P. G. GREVILLE, Secretal.

Bound in roan, gilt leaves, price 6a.

THE ENGINEER AND CONTRACTOR'S POCKET-BOOK

FOR THE YEARS 1847 AND LOCKET-BOOK
RE-MODELLED AND IMPROVED ON TEMPLETON'S ENGINEER'S POCKET-BOOK RE-MODELLED AND IMPROVED ON TEMPLETON'S ENGINEER'S POCKET-BOOK.

Comprising, besides the Calendar and Memoranda for the Two Years, requisite Tables of Tides, &c.—the Acts for the Engilation and Making of Raifreads—Standing Orders for the ensuing Sessions of both Lords and Commens for Fublic Works in general—West-minister-bridge—Prices of all the Operations of Railway Surveying and Making—Prices of Tools and Machines—of Iron and Iron-Works—Locomotive-Engines, and Experiments with Trains—Strength of Materials of all kinds—Masonry and Stonework—Hydranic Experiments, Screw Propellers, and Details of Her Majosty's Steam Navy, with a particular Account of the Steam Ravy of France—Electric Telegraph—Machanical Powers—Mensuration—the various useful Tables—and a corrected List, by the Socretary, of the Menbers of the Institution of Civil Engineers, &c. &c.

Edited and published by John Weale, 89, High Holborn:

OMBUSTION of COAL, CHEMICALLY & PRACTICALLY CONSIDERED. With coloured plates.

By CHARLES WYE WILLIAMS, Esq.

Zondon: Simpkin, Marchall, & Co., and J. Wesle—Birmingham: Wrightson & Web

THE WEATHER.—"MARKWICK'S PATENT CHEST HE WEATHER.—MAKEWICKS PATENT UHEST PROTECTOR effectually retains the warmth of the part to which it is applied, and yents all contact with external damp or cold.—Advertises. "Is much more efficient than which will be seen that any thing ever used for the purpose."—Belle Life. No. 1 to 4 are for constant as. Nos. 5 and 6 for placing over the shirt on leaving heated rooms, in travelling, &c. be had of all respectable chemists, hosiers, &c., af from 1s. to 4s.; and wholesale present Epithem Depot, 69, King William-street, City.

#### NOTICES TO CORRESPONDENTS.

JOURNAL is published at about Eleven o'clock on Saturday morning, at the Fleet-street, and can be obtained before Twelve of all the news agents, at the

'e have been compelled to postpone several papers of much interest; also letters on the Universal Atmospheric System; Relative Strongth of Malleable Ivon Beams; Lightning Conductors, &c., &c.; an article on the Smelling Trade in New South Wales; all which an ENLARGED SHEET, next week, will enable us to publish.

#### THE MINING JOURNAL And Atmospheric Railway Sazette.

LONDON, NOVEMBER 7, 1846.

We are sorry to observe, that the colliers of the South Staffordshire districts are again on the move for a strike-the thick coal colliers for 1s. per day, and the thin coal and ironstone getters 6d. per day, increase in their wages. Notices have been given to several collieries of 14 days, from last Saturday, for the above rise—alleging, as reasons, the present high price of provisions—the severity with which the parish collectors force all housekeepers to pay the rates—and that they do not have a proportionate benefit for their perilous exertions. Should this strike be persevered in, the iron trade will coal heaven a proportion of the contrade will be a proportion of the con rates—and that they do not have a proportionate benefit for their perilous exertions. Should this strike be persevered in, the iron trade will again become unsettled—numerous extensive contracts having been made on the faith of existing wages, and which will be most seriously interfered with, as the proposed advance will add 10s. per ton to the price of iron. The iron trade has been steady for the past few weeks, and without alteration in price; although some parties have anticipated, that the orders for the iron necessary for railways in the course of construction, would cause an advance in price; it is not, however, believed that those orders which have keen kept back, but which cannot be withheld much longer, will either cause an advance, or that there will be much difficulty in finding parties to execute them. We had hoped that the iron trade would have proceeded with an unwonted degree of regularity over would have proceeded with an unwouted degree of regularity over the present and ensuing year; we fear, however, that the firmness so much to be desired, will be interrupted by these continual at-tempts of the men to inforce a higher, and, as has already been seen, an unhealthy and disproportionate rate of wages; and should an advance in the price of iron take place, it is to be feared that a protracted struggle would take place between the masters and men engaged in every department of the manufacture. There is among many of them a discontent and impatience of control, which, with the facilities of communication with every other district, renders their clubs and their meetings easily organised; and should these outbreaks continue, the greatest difficulties must be expected in seeping up the supply at all equal to the demand. A rumour has gone abroad that a scarcity of ironstone exists in Staffordshire, which will be soon severely felt: we most certainly treat this as only a rumour—for we believe, and we hear from the best sources of intelligence, that no signs of such falling off had anywhere been exhibited. This would at once make a great difference in the cost, and he a reason for an increase in pairs. and be a reason for an increase in price.

The question of the safety and sufficiency of the national food, is of such vast and vital importance, that it would be unpardonable to treat it in any other way than with a strict and conscientious reference to the ascertained facts of the case. It is no more an agricultural than it is a manufacturing question—no more a manufacturing than a mining—because it penetrates all interests, and plants itself upon every hearth. It is one of the unchallenged facts of the case, that the last European grain harvest, including that of the islands, in the chief of which we write, was as full and large a harvest as the stations are provided to the case, that the last European grain harvest, including that of the islands, in the chief of which we write, was as full and large a harvest as the nations are wont to to see waving in their fields, or reposing in their storehouses. There was an occasional and irregular deficiency in the yield of oats and barley; but, as a whole, the Cereal produce of Europe was fully an average one, leaving the countries less populated, and more exclusively agricultural, than our own, a large surplus for the necessities of the less fortunate districts. It is also a fact too notorious to be doubted, and too painful not to be deeply lored, that not in Great Britain only, but generally throughout the continent, the potato crop has, from unknown causes, been a great and a melancholy failure; the loss of this esculent is a serious deduction from the provision stores of Europe; and though it has not, and it will not, eventuate in a scarcity of corn, yet it will, in a measure, raise the market value, both of grain and flour, in consequence of the additional demand for them. This inconvenience, which, we believe, will be the chief pinch of the crisis, will be rounded off, if not wholly obviated, by the measures taken on the part of the Government and merchants of England, to fill the markets of the kingdom with grain and flour, which otherwise we should not receive, to replace an inferior edible, which for the present we have irretrievably lost. At this moment, from the Black Sea to the St. Lawrence—from Odessa to Quebec—our Argonauts are ploughing their homeward course, not with a golden fleece, but with a richer freightage, fully to compensate—or, even, perhaps, largely to overbalance—the loss which has fallen upon our provision stores.

These are the cardinal truths, the leading particulars, as to the security of the national food, till the summer months of 1947, and undoubtedly we see nothing in it to frighten the isle from its proundoubtedly we see nothing in it to frighten the isle from its propriety. Already prices appear to have reached their maximum—the alarm having nearly subsided, and the fullness of our resources to fill up the unfortunate chasm, being clearly ascertained. It will be strange to us if the next Mark Lane averages do not indicate such a softening of the pulse of the provision market, as will assure the most timid, and convert the most unbelieving. With the knowledge of the stores of corn laid up in Europe, and which, for obvious reasons, must shortly be brought to market, we think it impossible that present prices can be maintained. Moreover, from Alexandria and the ports of the Black Sea, there arrived recently, in one week, at Toulon and Marseilles. 44 vessels laden with corn: this activity of Toulon and Marseilles, 44 vessels laden with corn: this activity of importation continues; and, when the crowd of Atlantic cargoes. move on their way, shall have been delivered, we think that not only Great Britain, but Europe at large, so far from enduring scarcity, will be in the ample enjoyment of abundance. Under every phase, whether past or present, of this crisis, the visitation itself has scarcely been more painful than the conduct of the Irish people under it. They suffer, in this case certainly, from no act of the British Legislature. der it. They suffer, in this case certainly, from no act of the British Legislature—from no cruelty of the Saxon—for these are the popular Irish imputations against the Government and people of England—their chastisement is wholly and obviously a providential infliction: netwithstanding, the absence of their customary food is not more palpable, than their utter want of patience and subordination at the loss. Instead of a cheerful struggle against the difficulty, they consume themselves in turbulent complaints, and in violent outrages; and instead of putting their shoulders to the wheel, and helping forward the rectoral measures of Government, they prefer assembling in idle masses, and bring back upon us, for a different purpose, the scenery and the sorrows of Clontarf and Mullagmast. It is not permitted us to hope, that a voice so humble as ours can be heard amidst the tempest which is now sweeping over the Irish soil; but if our whisper should reach the ear of some influential member of its hierarchy, or some popular leader of the people, its purport would if our whisper should reach the ear of some influential member of its hierarchy, or some popular leader of the people, its purport would be—teach the flock of which you are the overseer, the duty of civil obedience—teach the people of whom you are the tribune, whatever is the chiefest of their griefs, the chiefest of their obligations is to maintain good citizenship. For ourselves, having, at the commence-ment of October, foreseen, as we judged, the amplitude of our resources for the winter supply of our public necessities, we were as bold to declare our then almost solitary opinion, as we are glad now to notice the general admission of its truth: that there will be no deficiency as to England, is now the universal confession,—for our merchant ships are known to be ploughing every deep, and with their sails whitening every sea, bearing to these shores grain in such quantities as would match, it is supposed, the annual yield of Egypt under the sway of her Phanoaus.

[These remarks were intended for our last Journal, but a late pressure occasioned their unavoidable omission: however, we readily afford them: space now—not alone from the timely applicability of the reasoning, but from the events of the past week so fully confirming the correctness of the writer's conclusions; in corroboration of which, we may, besides other matters, quote the following paragraph, which appeared in the Morning Chronisle of Wednesdayt—"Arvivated provisions from the United States of America.—The Samuel Hiels, which arrived at Liverpool from New York on Saturday, brings 12,288 bushels of wheat; 4010 barrels flour; 9720 bushels Indun corn; and 70 boxes cheese," Also, from the same paper of yesterday:—"The General Veater arrived at Liverpool from New Orleans on Tuesday, with 2384 barrels flour; 3234 sacks wheat; and 1000 kegs lard."]

The subject of the manufacture of iron in France, by the introduction of coal from this country, was agitated in our columns some two or three years since-while the increasing consumption in that country, from the construction of lines of railway, the monopoly which exists, and the heavy duty imposed on the several descriptions of iron, whether pig or bar, have at last attracted the attention of capitalists, who, from a prospectus now before us, and to which reference is made in our advertising columns, appear to have acted on the hint, which, whether conveyed by others or ourselves, was, we think, not unworthy of notice, nor will it be found otherwise than as affording a high remuneration on the capital employed. We purposed to have entered at some length into the calculations we purposed to have entered at some length into the calculations made, the relative cost of materials, and their proportions in the manufacture, with reference to the prices "at home and abroad;" but the demand on our columns of to-day, embracing as they do many important objects, induce us to defer, until another opportunity presents itself, entering into those details, which at once prove to us the practicability of the scheme—if such it may be formed—for we are given to understand, one furnace is already in blast, producing the scheme of the scheme. ducing 50 tons of iron weekly, with a consumption of fuel not exceeding, from the admixture of the native and foreign coal, 1 ton 15 cwts. per ton of iron, and the ore yielding 40 per cent. to 44 per cent.—or, in other words, requiring only 2½ to 2½ tons to the ton of iron. The present project appears to be the introduction of anthracite into France, or rather in the department of the Loire Inferieure, about 30 miles distant from Nantes, where iron ore abounds of the varied qualities, necessary for the manufacture of a superior description of qualities, necessary for the manufacture of a superior description of iron. Operations appear to have been carried on heretofore with coal, obtained in the immediate locality; but the economy observed in the use of anthracite, with the application of the hot-blast, and the introduction of the improved machinery, which we have seen in action in Germany and elsewhere, for applying the gases or heat to the smelting operation, and heating the air required as blast, has determined the proprietors on availing themselves of the Welsh anthracite, or stone coal, for the application of which, in the smelting of iron, the late lamented Grobos Crane, Esq., secured a patent of iron, the late lamented George Chang, Esq., secured a patent—that gentleman having found that, with the application of hotblast, 28 cwts. to 30 cwts. of anthracite was ample for smelting a ton of foundry iron—the yield being, if we recollect aright, 55 tons to 60 tons a week from a cupola furnace, not exceeding 28 feet in height, with boshes, 11½ feet to 12 feet.

The object of the parties with whem the project emparates is to

The object of the parties with whom the project emanates, is to introduce anthracite, which, including the cost of freight and import duty, with carriage to the works, is estimated at 39 fr. per ton—or taking 1½ tons (say, 57fr. 50c.), ex. at 25 fr. 40 c.—21. 48. 10d. The ore consumed in rendering 1 ton of pig-iron, is set down at 2½ tons—or, in the gross, 8 fr. 50 c., equal to 6s. 7s.; the limestone, 5 fr., equal to 3s. 11d.; labour, 8 fr., equal to 6s. 3d.; and wear and tear, 8 fr., equal to 6s. 3d.—which, with transport to Nantes, 4 fr., equal to 3s. 1d., give a total of 90 fr., equal to 3l. 10s. 10s. per ton—the cost, of manufacture and transit to shipping port—while the selling price of foundry iron, No. 1, ranges from 195 fr. to 220 fr. per ton. bar-iron commands a price of 400 fr., or 151.15s. per ton. It must, then, be apparent, if these estimates be correct—and we have no hesitation in adopting them, as emanating from parties not only of high character, but who have acquired much practical information on the subject—that an immense revenue will accrue from the union or amalgamation of English coal with French ores, and thus will there be a further bond in a metallic shape between the two countries.

In last week's Number of the Mining Journal, we inserted a paragraph, taken from the *Literary Gazette*, presuming on the usual correctness of that periodical, respecting a plan invented by Capt. Freezagury Von Neudegg, for enabling railway trains to ascend and PRESEAUTY VON NEUDEGG, for enabling railway trains to ascend and descend very steep inclines with perfect safety, by giving every carriage of the train a power to proceed independently of the bite of the locomotive wheel on the rails, which is accomplished by conveying the propelling power of the engine to one axle of every carriage. Now, without attempting to detract from the genius and ability of Capt. Naudosca, it is but justice to our countryman (Mr. W. H. James), to state that he invented and patented the self-same plan six years ago; and, although Mr. James is an engineer, and the

on of one who took a great interest in the completion of the Liver-pool and Manchester Railway, and, consequently, one whom we should suppose had some little interest, we believe he has not in a should suppose and some little interest, we believe he has not in a single instance been able to get his invention adopted. We have, on more occasions than one, had brought under notice the circumstance of two or three parties inventing the same thing entirely unknown to each other; witness the gun cotton, which has been experimented on by some three or four persons before Prof. Schonren, made it public, and the electric telegraph, by Messrs. Cooke and Wheatstone, unknown to each other; but who, wisely, afterwards coalesced, and took out their patent jointly. It is possible that Capt. Neudego had not seen the specification of Mr. James; but if the plan should come into use on the continent, it is but justice to the latter for the public to know, that he was at all events the ori-ginal inventor of the principle, although unsuccessful as to getting it into practice, and that he has had the start of the captain by some half dozen years. We took the paragraph in question, as be-fore stated, from the *Literary Gazette*, without at the moment being aware of the above circumstances; and, having referred for information, we have thought it right to make these remarks. Alththe invention is by no means new, we believe the paragraph has gone the round of the European papers without explanation—a cir-cumstance showing the extreme carelessness with which the press receives and circulates its information.

Gratifying as it is at all times to observe the advancement of scientific principles, as applied to the operations of life, facilitating the labour of the artisan, multiplying the products of manufactures, increasing the amount of the necessary articles of consumption of mankind, and spreading intelligence, happiness, and civilisation throughout the world; it is doubly so, when an attempt is made to bar its progress—such attempt being made by parties who ought to be foremost in the ranks for the spread of knowledge among, and the advancement of the employment and comfort of, the people; and when in spite of every opposition, it bears proudly on, and comes nobly off a conqueror. Such has been the case with the Western Gas Company, established for the manufacture of a gas far superior to any yet produced for the purposes of general illumination—the result of many years' scientific experiments of Mr. Palmer (the engineer to the company), and which would benefit the public and the subscribers; they no sooner commence the erection of the works, under the authority of an Act of Parliament, on ground purchased at Kensal Green, than they meet with a most determined opposition tientific principles, as applied to the operations of life, facilitating at Kensal Green, than they meet with a most determined opposition from the Rev. Arthur Come Pemberton (the rector), and a clique composed of some of the aristocrats of the village, who get up a professed public (?) meeting, pass resolutions, describing the erection of the gas-works as a nuisance, and a serious injury, to the inhabitants—at which meeting none are allowed to speak but those who support the rev. chairman's views—and then giving out that the resolutions were the opinions of the majority of the inhabitants, to give a colour to the adoption of local measures to a revenut the research the were the opinions of the majority of the minoitaits, to give a colour to the adoption of legal measures to prevent the progress of the company. In another column will be found a report of a meeting, held on Wednesday last, convened by the directors, in consequence of a requisition, signed by npwards of 100 of the inhabitants of the neighbourhood, to ascertain really the sentiments of the majority. The result of that meeting is a great moral victory; most numerously and respectably attended—all opinions were heard with candour and liberality—and not a single hand was held up against the re-solutions, expressive of the benefit to be conferred by the erection of these works—while the principal opponents of the measure kept out of the way—doubtless, aware of their inability to withstand the ont of the way—doubtless, aware of their inability to withstand the force of truth; and the conviction, that to minds, unblinded by prejudice, the adoption of the discoveries, which the advance of science is daily bringing to light, tends to the happiness of the greater number, and places the bounties which Nature has placed around us within the reach of all. We trust the benighted opponents of the measure will, for their own sakes, cease their useless opposition; for as well might they, like Carute to the ocean, say—"Hence shalt thou come, and no farther; and here shall the proud waves be staid"—or, like Mrs. Partner, ox, with her mop, endeavour to bar its surgy progress—as attempt to curb the rapid strides of knowledge, the continuous discoveries of science, and their application to the wants and wishes, the comforts and luxuries, of the people.

ON THE ECONOMICAL CONSCRICTION AND WORKING OF RAILWAYS -We beg to direct the attention of our readers, especially those in any way connected with railways, to the astonishing letter in another column, signed "Philanthropy," on the subject of constructing and working railways, in which there appears some most astounding deductions—among others, the possibility of making the united efforts of eight men propel on a perfect level railway a load equal to a stage coach, with 20 passengers, 250 miles in one day; which, allowing a stage to be 10 miles, would make 25 stages, and 4 horses at each stage would make 100 horses, to accomplish the same in 25 hours—thus showing the united power of eight men vastly superior on a good railway to 100 horses on a turnpike road! ! and yet it appears theoretically correct. We happen personally to know that the author is a very talented, ingenious, and practical engineer, who designed and erected at Twerton, near Bath, over the River Frome, admitted by competent judges, and by the public in general, to be the firmest economical suspension bridge ever erected, it being so contrived as entirely to prevent ose illation or undulation—it dangerous property more or less attending all suspension bridge ever evered, it being so contrived as entirely to prevent ose illation or undulation—it dangerous property more or less attending all suspension bridge with curved chains; and we are glad to have this opportunity of bearing testimony to this also extraordinary fact (an engraving and description of which appeared in our Journal). But, for this we should have hesitated ere we allowed his letter to appear in our publication—as just reached this country of two important discoveries in the order to the first is well deserving the attention of the railway public, for supposing only one-half of the advantage shown in theory, be gained in practice, it may even then be deemed an extraordinary production.

Valuable Discovers of Coal in Western Australia.—Information has just reached this country of two important discoveries in this distant colony. The first, is that of a supposed bed of coal, the particulars way connected with railways, to the astonishing letter in another column,

VALUABLE DISCOVERY OF COAL IN WESTERN AUSTRALYA.—Information has just reached this country of two important discoveries in this distant colony. The first, is that of a supposed bed of coal, the particulars of which are contained in a letter from Mr. S. Moore, dated July 30, in which he states that, in cutting a drain 100 yards long, and 4 feet deep, in the lands of Mr. Beacham, 35 miles south of Fremantle, and near the Murray River, a stratum was found 3 feet from the surface, of clay, similar to the shale of Lancashire, lying nearly horizontal, containing shining substances, like fractured coal, imbedded in it, and which, when burnt, produced case and shame, on discipace and stand west it was acquire found. substances, like fractured coal, imbedded in it, and which, when burnar, produced gas and flame; on digging east and west it was again found dipping west 2 inches in the yard; on the east they sank 15 feet, passing through the following strata:—1, a yellow sandy clay; 2, yellow clay, containing reddish spots; 3, shale clay,—containing black shiny substances, resembling coal; 4, brown clay; 5, azure blue clay, 6 inches thick, containing veins of a black substance, in which the marks of large leaves are discernible; 6, blue clay, rather lighter than the last, and 3 ft. thick; 7n, dark brown clay, 46 inches thick; 8, hard sand, 2 ft. thick; and 9, strong adhesive clay. At this depth the progress was stopped by the water, but the several productions were examined by Mr. Birch, a chemist from Staffordshire, who pronounced them to belong to the coal measures. A boring instrument was to be immediately sent to the scene of operations. A new port had also been discovered in Mangle's Bay, at the south extremity of Cockburn Sound, three miles north by east from Peel's Harbour, having a depth of 5 and 6 fathoms, 100 yards from the sandy beach, and 10 to 11 fathoms, at a cable's length further out, on a bottom of the very best holding ground—a soft clay.

Finlay's Patent Atmospheric Stape for Gas Lustres or other

Finlay's Patent Atmospheric Slide for Gas Luatres on other Lames.—This is a very ingenious contrivance, remarkable because of its simplicity, and is in no way liable to go wrong. The arrangement of it is thus:—The outside tube or pipe is the cylinder, in which a vacuum is formed by pushing up the lamp; the diameter of the tube is in proportion to the weight of the fustre, and it so nicely balanced that the lustre stands at whatever point drawn down. This entirely sets aside the need for weights, springs, or cords; and, as already observed, its great recommendation is its extreme simplicity, and fitness for the purpose.

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PROGRESS OF FRENCH MINING INDUSTRY.

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The company formed by Mr. York, and Messrs. Mackenzie and Brassey, the well known railway contractors, for working the forges and iron esta-Mishments of Evreux and Pont Audemer, has just been dissolved.

The large Post-office contracts, for the supply of coal for the mail steamers, were disposed of last Friday. The contract for the supply of 1,800,000 kilogrammes, to be delivered at Calais, was taken at 2 fr. 39½ cents. the 100 kil., by M. Fayen: Mr. Charlton offered. 2 fr. 50 cents. The large contracts of 8,400,000 kil., and of 4,600,000 kil., was taken by Mr. Jackita 13 fr. 39 cents.—that price being less than that of the Grand Combe impany, which was 3 fr. 57½ cents, and than that of M. Brequet, which was 3 fr. 42 cents. Mr. Jackson also obtained the contracts for Malta, Alexandria, Athens, and Constantinople, at 4 fr. 29 cents, the quantity of coal to be supplied being 24,800,000 kil. The prices offered by Mr. Jackson's competitors were—4 fr. 39 cents, by Mr. Chapman; 4 fr. 31 cents by M. Allegre; 4 fr. 30 cents, by M. Bernon. Thus, it will be seen that, of the vast quantity of 39,600,000 kil. of coal required by the Post-office, Mr. Jackson has obtained all, except the Calais supply of 6,800,000 kil fmy memory does not betray me, Mr. Jackson had the same contracts last year. At one moment it was doubted whether the award to this gentleman of the Marseilles contract would stand good. Immediately on its being declared, one of the official persons present, the sub-director of the Ost-office, I believe, remarked that, by its treaty with the Government, the Grand Combe Company was bound to supply the State with coal at a lower price than had been named; but, after a little hesitation, it was stated that this objection would not be persisted in.

last year. At one moment it was doubted weather to extended the Marseilles courtact would stand good. Immediately on its being declared, one of the official persons present, the sub-director of the prest-office, I believe, remarked that, by its treaty with the Government, the Grand Combe Company was bound to supply the State with could at a communication, the content of the cont

"national" interest.

On the 29th Oct., says a St. Dizier letter, no price had been fixed for the fontes moules since the advance in other articles. The manufacture was only for old markets, and new orders were left without reply. The stocks of wood being laid in, a decline had taken place in that article; and at some large adjudications, nothing had been done, on account of the extortionate demands of the sellers.—Paris, Wednesday.

Australian Copper Ore.—The Phabe, whose arrival from Port Adelaide and the Cape of Good Hope in this country, we noticed in our last Number, as having, in addition to an extensive general cargo of the produce of both countries, the very large quantity of 800 tons of copper ore from the Burra Burra Mine, in South Australia, is now unloading in the East India Dock. We have had an opportunity of inspecting some of the cres, which consist of the blue and green carbonates, and grey oxides of copper, and are very rich; this portion of the cargo is reshipping for Swansea—the great copper smelting mart of Europe. Many persons are surprised at so large a quantity of ore being brought in one vessel, in addition to a full complement of general cargo; but the fact is, these ores are brought as ballast—thus enabling the owners of vessels to bring them to this country at a comparatively nominal freight to what would be charged if they formed the ship's cargo. Indeed, rich as the ores are, it would amount to a most serious impediment to their transport—in many cases proving a prohibition, if full freightage was charged; but, as wool forms a large proportion of South Australian produce, these ponderous ores assimilate well with its lighter qualities. with its lighter qualities.

THE IRON TRADE OF SPAIN.

Spain has for ages past been known to possess, in vast abundance, numerous metals, dispersed principally through the provinces of Andalusia, the Asturias, Guipuscoa, Navarre, Biseay, and Alava; and all that is required, to raise the working of these mines to their natural importance, is a change from the convulsions she has suffered from foreign aggression, internal wars, and military despotism, to the calm pursuits of industrial life, and the development of those great resources, with which she is so emineatly provided. It is to be hoped, the result of the Queen's marriage will be the restoration of tranquillity, and we are happy to see that the enterprising spirit of mining industry is again reviving. Besides the ores of tin, silver, copper, lead, with coal and quicksilver, with which Spain abounds, the mountains, which in every part rise throughout Biscey, are most prolific in iron ore of very rich quality—one mine in particular, and which may be considered mexhaustible, is that of Somorostro, situated near the town of that name, about 12 kilometres from Bilboa. The iron of Biscay, although manufactured on the old method, is of a very superior quality, and bears throughout Europe and America a very high reputation, especially in the fabrication of steel, and is chiefly used in the royal manufactory at Toledo—the sword blades of which place are celebrated all over the world, and has, from time immemorial, been one of the principal sources of trade to the Biscayians. At the commencement of the present century, Biscay had a great number of forges in full work, her mountains being then covered with thick forests, easy of access, and thus supplying plenty of fuel at little cost; but the long wars to which that part of Spain has been exposed since the invasion of the armies of Napoleon, and their own intestine revolutionary conflicts, with the impolitic duties imposed by the Government on Biscayian iron entering Castile, has discouraged the forgemasters, and caused a complete stagnation in the manufacture. Another Spain has for ages past been known to possess, in vast abundance, numerous metals, dispersed principally through the provinces of Andalusia, manufacture is carried on by charcon, and the seam-engine is looked upon as a sort of mysterious agent, of which at present the inhabitants are almost totally ignorant. In this province, coal is entirely wanting; but in the Asturias the iron ore and bituminous fuel are contiguous to each other, enabling the manufacture to be carried on the same as in England. The coal is of a very superior quality, equally suitable for smelting or domestic purposes; and it only requires the construction of a few good roads to the sea-side, and the nearest towns, to develope the full resources of these mineral beds. Spain at present not only consumes nearly the whole of the iron she produces, but is obliged to import the better sorts from England; and it is gratifying to observe, that considerable enterprise is apparent among the forgenuaters of this particular province, as well as others; in Alava, there are from 25.40-36-farmaces; in Guipuscon, about 40; and about 25 in Navarro: these all employ the cres of Somorostro, mixing a small portion of an inferior ors found in the respective provinces. In the furnaces of Montana and the Asturias, the Somorostro ores are also employed, and a large quantity is also sent to the port of Rosas, in Catalonia, for the furnaces of Figueras, at the foot of the Pyrennees. Mining is evidently advancing in Spain; and confidence being restored, and with the continuance of internal peace, and a friendly relation with foreign powers, her immense natural resources may be made available to the necessities and comforts of her population. Previous to the civil wars, according to official returns, the quantity of iron produced from the number of Somorostro, averaged from 800,000 to 800,000 quintals (121 he. each); it is placed in depoits, close by the river's bank, from whence it is transferred to salling barges, these carry it to the ships, which convey it to the various Biscayian ports. Some portion finds its way shither by land carriage. The four provinces of Biscay, Alava, Guipusco, and Navarre, have

THE IRON TRADE OF FRANCE.—The researches which have been so energetically pursued in France, for the discovery of iron ore, have, in the department of the Moselle, been partially crowned with success. Beds of iron ore are now known to exist, extending from Luxemburg to the mountains of the Vosges, and, probably, far beyond; these have long been worked in particular localities, but, within the past three months, extensive works have been opened from the village of Moulins, along the valley of Mance, on the banks of the Moselle. The results are highly favourable—the ore is rich, and highly fit for the manufacture of rails, and is giving employment to a large number of the population. The furnaces used in this department produce upwards of 12 tons of metal per day; and allowing 250 working days in the year (holidays are kept on at least 100), the produce may be taken at 3000 tons for each furnace per annum? 21 furnaces will, in a short time, be in blast, which in five years will furnish at least 315,000 tons of cast-metal. Extensive researches are also being made for the beds of coal believed to exist in the Lower Scine, and 40,000 ft. have already been subscribed for defraying the expenses of boring, &c. The researches which have been so ener THE TRON TRADE OF FRANCE. have already been subscribed for defraying the expenses of boxing, &c.
The report of the committee is highly satisfactory as to the nature of the
trata, and very sanguine expectations exist as to the result.

GENEOWDER.—The exportation of British guspowder was formerly probibited, but such restriction has been discontinued for some years past; and at the present time a French burque is lying at Erith, loading with this destructive material: she will take in a cargo of 4000 barrles, which has been supplied by Messrs. Hall, the guspowder manufacturers of Davington, near Faversham

IMPROVEMENTS IN SMELTING-BLOWING MACHINE.

The blowing machines hitherto employed for maintaining a high temperature in smelting furnaces, have always been subject to considerable irregularities in their working, the cause being attributable to the principles on which they have their working, the cause being attributable to the principles on which they have been constructed. In the use of the bellows, and, more recently, iron cylinder blowers, those defects are so great as to require the addition of other apparatus for their correction. Their motion is alternate, and as the force of the current of the air they create varies in intensity also—the process of smelting is very much retarded—and the smelting point kept at various degrees of temperature, instead of a constant one. The motion of the piston within the cylinder is sufficient to account for the unevenness of the blust, as the air beneath the piston gradually becomes more and more condensed as it goes on, and its elastic force made to vary in proportion. Regulators are in general costly machines, and they have failed to correct the varying action of the cylinders, the old defects of which have still to be remedied. Another defect is the alternate succession of the currents from several cylinders, which no regulator can prevent; and a third is the imperfection of the regulators themselves, which require a great power to work, a great space to stand in, and a large expenditure to keep in order. Their disadvantages are well-known to smelters, and are praticularly felt when the furnace is loaded with ores reducible only at very high temperatures, and when fuel is employed which does not readily decompose. In the dipping of the layers, and in several other incidental obstructions, they are also experienced very inconveniently. One of the worst consequences resulting from these circumstances is the lowering of the temperature of the smelting point during the intervals of the blast. The surface is not, therefore, kept at the white heat necessary to reduce the exide of iron, and no perfect union of carbon and oxygen can take place. These results find their proof in the fact, that too many ashes are deposited. To obviate these serious imperfections, a new blower has been invented, we understand, by M. Heinrich Beinhater, smelting-factor, been constructed. In the use of the bellows, and, more recently, iron cylinder

IMPROVEMENTS IN THE MANUFACTURE OF IRON.

[Specification of patent granted to James Falmer Budd, of Ystalyfera Iron-Works, Swansa, merchant, for improvements in the manufacture of from .]—Newton's London Journal This invention relates to the employment of the flame from blast-furnaces for heating the air which is supplied to such furnaces, and thus reducing the cost of making iron. The improvements consist in making lateral openings out of a blast-furnace into a contiguous chamber, furnished with a chimney or means of obtaining a draft, and placing suitable pipes or apparatus for the pas-sage of the blast of air, in order that the same may be heated and conducted

sage of the blast of air, in order that the same may be heated and conducted from the heating apparatus to the tuyers.

The mode of carrying out this invention is as follows:—Two rows of three, four, or more openings, are made around the blast-furnace, and there is a flue formed for each row, to conduct the flame, that passes out of the furnace through the openings, into an adjoining chamber, containing the apparatus for heating the blast of air; such chamber being built as near as pessible to the furnace, so that the flame may pass freely into it, and being closed at all parts, except where it opens into a flue or chimney, which should rise above the tunnel-head of the furnace, for the purpose of creating a good draft through the chamber. In order that the interior of the chamber may be easily repaired, a door is provided at any convenient part; and if the chambershould get too hot, by opening this door the draft will be reduced, and the heat of the chamber will be of course diminished.

In order that the interior of the chamber may be easily repaired, a door is provided at any convenient part; and if the chamber should get too hot, by opening this door the draft will be reduced, and the heat of the chamber will be of course diminished.

When several blast-farnaces are built close together, a chamber is constructed between every two adjoining furnaces; and in this case the flues leading from the openings to the chamber will not ness all round ench furnace, but each set of flues will extend half round, so as to conduct the flame, that passes out of half the above-mentioned openings, to a chamber between the two furnaces; the flame issuing from the remainder of the openings being conveyed, by another set of flues, to a chamber on the opposite side of the furnace; thus the flame will not have to travel so far as when the flues entirely surrounded the furnace, and conduct the whole of the flame into one chamber. Where this arrangement is adopted, the patentee prefers that the heated blast from the several chambers should pass into one main pipe, and thence to the tuyeres of the different furnaces. He states, with regard to the openings in the blast-furnace, that 12 openings, 18 in. high and 18 in. wide, leading into two flues around the furnace; above the boshes and below the tunnel head, are sufficient; the flues opening into a chamber of a suitable size for containing the requisite pipes or apparatus for heating the air.

The patentee says he is aware that it has before been proposed to form lateral openings out from blast furnaces, for the purpose of conducting off, by means of pipes or passages, the gascous products from the upper part of the furnaces, with a view of obtaining inflammable gas, to be ignited at a distance from the furnace, he will be a suitable to the containing the producting off, by means of pipes or passages, the gascous products from the upper part of the furnace, by the aid of the draft through the chamber or chambers, may pass amongst and heat the pipes or apparatus contai

[Specification of patent granted to James Palmer Budd, of Ystalyfera Iron-Works, Swan-la, merchant, for improvements in the manufacture of iron.]—Newion's London Journal.

This invention consists in the application of clinkers, produced by the comoustion of coal, to the manufacture of iron.

bustion of coal, to the manufacture of iron.

The clinkers may be obtained from works where large quantities of coal are burned in furnaces or smith's fires; also from the waste heaps of small coal, which have been burned down at various coal-mines, in order to reduce the bulk of such heaps; and from the waste ash-heaps of various manufactories, which having been burned down, a substratum of clinkers is formed near the bottom of the heaps. Clinkers, being of a light porous nature, and centaining a large proportion of earthy matters, are peculiarly suitable for use in the blast-furnace with the rich oxides of iron, whether the latter consist of the cinders obtained in the various branches of the manufacture of malleable iron, or of the rich iron ores called hematites, which are of great specific gravity, and contain only a small proportion of earthy matters. The advantages arising from the admixture of the clinkers with the rich oxides of iron in the furnace are, that they will lessen the density of the whole, and facilitate the passage of the blast, and also supply the proportion of earthy matters required for the perfect separation of the iron.

In charging the blast-furnace, the patentee generally combines the clinkers with rich iron-stone, cinder, or ore: as the quantity of iron contained in different kinds of clinkers varies, exact directions cannot be given for the use of every quality of clinkers; but the rule laid down by the patentee is, that if the clinkers are rich in iron, he employs a less quantity thereof than when they are comparatively poor; and he combines the iron-stone, cinder, or ore with the clinkers in such a manuer, that the charge fed into the furnace will contain less than 50 per cent. of iron. In all cases where the clinkers have less than 45 per cent of iron, a richer material, such as the cinder of malleable iron-works, or rich iron ore, should be used therewith, to bring up the iron in the sharge to about that per centage; but if the clinkers contain from 40 to 50 per cent. of iron, The clinkers may be obtained from works where large quantities of coal are

Gun Corron as Applied to Mining.—Mr. R. Oxlaud, the chemist of Plymouth, has made some experiments with the explosive cotton, at Catte Down Quarries, which, in addition to Mr. Taylor's experiments in the mines of Cornwall, have completely established its perfect success for blasting. Two large blocks of limestone, weighing a ton each, projecting out from the mass of rock, were prepared, by boring a hele in each to the depth of 11 m.; 2 ozs. of powder were placed in one, and i oz. of cotton in the other, and, when exploded, the powder morely split the block in half, while the cotton tore the stone to atoms. In a second experiment, on a rock weighing 2 tons, the bole was 10½ in. deep, and 1½ in. diameter, into which ½ an oz. of cotton was placed, and it was equally successful

Proceedings of Bublic Companies. MEETINGS DURING THE ENSUING WEEK.

Last Coast Kanway—offices, at Eleven.

West Wheal Maria Mining Company—on the minering of Mining Companies are inserted among the Mining Intelligence.

REGENT'S CANAL COMPANY .- A special meeting of this company took place on the 6th inst., at the company's offices, Regent's Canal Basin, for the purpose of considering the propriety of applying to Parliament in the next sess

an Act for making a line of railway in connection with the Regent's Canal

was then passed to the chairman, and the meeting adjourned.

Bank of Ceylon.—The annual meeting of shareholders was held on Thursday last, at the company's offices, New Broad-street,—Thomas Young, Eq., in the chair.—The Segnetzar read the report, which congratulated the proprietors upon the satisfactory affairs of the bank. At the last annual meeting the directors had obtained the consent of the proprietors to enlarge the capital, but the state of the money market at the close of the last year induced them to alter their resolution, and to husband their resources by confining their sphere of operations. The capital had since proved equal to the legitimate wants of the community, and the directors, therefore, postponed for the present any issue of new shares. The result of the year's business enabled them to pronounce a half-yearly dividend of \$\frac{3}{2}\$ per cont., being 7 per cent. per annum. By the statement of accounts it appeared that the paid-up capital amounted to 125,000°C, and the undivided profits on the 30th June, 1845, to 18,7844. 4s. 7d. To the latter sum was now to be added the profits of the past-year, ending 30th June, which amounted to 11,4256. 2s. 9d., and would leave to the credit of "profit" a gross sum of 26,2091. 7s. 4d. Out of this the dividend would be paid, amounting to 7875L, leaving a balance of undivided profit on the 30th of last June of 18,2341. 7s. 4d. The report was agreed to, and the meeting separated.

London Gas-Light and Coke Company.—The half-yearly meeting was

18.2341. 7s. 4d. The report was agreed to, and the meeting separated.

LONDON GAS-LIGHT AND COKE COMPANY.—The half-yearly meeting was held on Tuesday, at the Crown and Anchor Tuvern, Stand.—W. BATEMAN, Esq., governor of the company, in the chair.—From the report, it appeared that the business of the company was progressively increasing since the last meeting. The directors proposed the same dividend as the shareholders had been in the habit of receiving for some time—namely, 6 per cent., clear of income tax, The statement of accounts showed that on the 25th of December, 1845, there was a balance of 10,1321. 14s. 3d. in favour of the company, which, together with 17,8491. 16s. 8d., the profit for the half-year ending June 30, 1844, loft a total balance of 27,9821. 10s. 11d. to the credit of the concern. The amount due for cent light at the several stations was set down at 48,5261. 4s. The contingent fund now consists of 35,0001. in Exchequer bills. The report was received, and a dividend of 6 per cent. declared.

TRINIDAL GREAT EASTERN AND SOUTH WESTERN BALLWAY.

TRINIEM GREAT EASTERN AND SOUTH WESTERN RAILWAY.

TO THE EDITER OF THE MISTRO JOERNAL.

SHR.—In the Morning Chronicle, of the 27th October, there appears a letter from Mr. Giles Hall, the ostensible chairman of the so-called Trinidad Great Eastern and South Western Railway Company, in which he states that, at a "meeting of certain parties, purporting to be shareholders of the above company, many of the statements made were totally untrue, and have not the slightest foundation to rest upon." On reading this, I naturally expected to find in the sequel a satisfactory and clear explanation of the astounding charges which have been so publicly made against the directors of the proposed undertaking; but, on the contrary, not only was I greatly disappointed, but I was astonished beyond measure at the weak and meagre attempt which was made to refute these statements, and to remove the "unfavourable impression on the minds of the public." In fact, to use an expression in the letter in question, "it is truly ridiculous, and almost too contemptible to notice."

Mr. Hall observes, that "one example of the minus and character of the meeting is as good as a thousand," and that, "therefore, the other assertions and assumptions, equally base and untrue, may be dismissed with the contempt they really deserve." This certainly is a very sweeping denial to make; but I am afraid he will find few to agree with him in such a doctrine. But, what is this "one example," upon which he places so much consequence? Nothing at all. It is unfortunate that Mr. Hall should not have opened his eyes a little wider. Did he not see the word about used to qualify the number of shares, which, it was stated, had been issued? The way the says in his letter, that 6000 shares had been issued properly, and that 20,000 had been issued improperly, but that about these numbers. And the object of the person, who made that remark, was evidently to show, that a large preportion of the shares had not been allotted, and the deposits paid, in the regular way. Coul

the newspapers, as the time must soon arrive, when he will be required te give an account of his stewardship.—A SHAREHOLDER: London, Non. 8.

Guardant of his stewardship.—A SHAREHOLDER: London, SHAREHOLDER: Which convince me that all fibrous or finely servated vegetable materials can be made to produce an explosive compound, similar in many respects to gunpowder, being of not seasy manufacture as the gun-cotton. I here enclose to you a specimen of the proposed sun sawdust, which can either be tested by putting it into the fire, or sprinkling over your measures; commercial oil of vitrici two measures also: pour the two acids into a bason, as the same state of the same state of specific gravity; 15 two measures; commercial oil of vitrici two measures also: pour the two acids into a bason, as the same state of the same state of specific gravity; 15 two measures; commercial oil of vitrici was not of the same of

HALIFAX AND QUEBEC RAILWAY.

We learn that the present Colonial Minister (Earl Grey) is earnestly following up the measures initiated by his predecessor (Mr. Gladstone), for obtaining accurate data relative to the probable cost and remunerativeness of this great national undertaking. Lieut. Henderson, R. E., and Capt. Pipon, R. E., are prosecuting the survey in two different directions, in order to come to a determination as to the best route to be adopted; and the propositions of the projected company are now under the serious consideration of the Government. Considering the vast field for employment to be opened up by this work, and the intensity of the present crisis, which renders it so desirable to avail ourselves without delay of the opportunity thus presenting itself, we are surprised that the British Government, or British capitalists, do not at once act upon the approximate estimates, which have been already furnished by the surveys of Sir James Alexander and others, and at least commence that portion of the line from Halifax towards the Bend and Newcastle, which is, from its population and increasing commerce, certain to afford a large return, and to develope the immense resources of Nova Scotia. Even as regards the transport of timber alone, when we inform our readers that 200,000 tons have been rafted to one port during the last year, at an expense of 5s. per ton, and loss in rafting equivalent to twice that sum, which, by railway, would reach the port at a cost of 10s., and in seven hours, instead of seven days—we exhibit a mutual benefit to colonists and capitalists, sufficient of itself to justify the stop we suggest. We say nothing of the probable stimulus to trade in other departments, from the establishment of a certain and constant outlet in the place of the uncertain and dangerous channels of the St. Lawrence and other rivers, closed for six months in the year by the frost, and, above all, the incitement and encouragement to systematic colonisation which would be forthwith insured, and would HALIFAX AND QUEBEC RAILWAY.

the approximate destinate of the cost hereto appended, has been confirmed and corroborated by practical men long resident in the districts to be traversed, and acquainted with the details and mode of construction followed in the United States:—

\*\*Report of Sir James Esheeri Alexander, dated Monireal, Jan. 5, 1846.\*\*

I have had the honour of receiving your letter of the 29th ult, requesting, in the name of the committee of correspondence of the Halifax and Quebee Railway General Committee, that will furnish information on the fallowing heads:—I and 2. The level afforded the property of the property of the property of the Halifax and Land any intervening hills; what the rise may be in 160 test or yards; the month effects of any intervening hills; what the rise may be in 160 test or yards; the month effects of the property of the prope Report of Sir James Edward Alexander, dated Montreal, Jan. 5, 1846.

APPROXIMATE ESTIMATE, by Mr. Valentine, Mem. Inst. C.E., based whom Sir Ja

ter's Report, an Ivarious information furnished, in correspondence the Survey r-General's Department, in New Brunswick:—	with Mr	.Joi	hn G	ra
42,240 yards cutting, at 9d., 15 ft. wide—alope 1 in 1 8,020 feet wood, at 6d.—Paynised	200	10		
587 tension bolts, at is. 6d	44 88	0	0	
I bridge in a mile	176	0	0	
Iron plate Sidings, &c. Laving rails	100	0	0 0	Ş
en in the contract of the first of the contract of the contrac	20000	9	0	195
Contingencies, 10 per cent.	-	-	3	
7 10001	£3297	18	3	

RAILWAY Foo Signals.—The signals which have hitherto been used on the lines of railroad in foggy weather, it is well-known, have proved very inefficient, and, consequently, frequent complaints have been made by those entrusted with the management of this important department. It is with great satisfaction, timerfore, we announce that a new invention has been introduced, well adapted to supply a deficiency which has long proved a great evil—we allude to a simple apparatus, denominated "Fog Signal." It consists of defonating powder made up in a circular form, firmly secured by tin-plates. Being about 5 in, in diameter, it is placed on the rail, two strips of lead being complexed to keep it firm in its position. In night or day travelling, when the weather is forgy and the ordinary st,mai are not to be discerned, this fog signal is placed on the rail. The moment the fore-wheel of the engine presses it, an explosion takes place as load as a mail cannon. The great value of this signal consists in its extreme simplicity and in its university principle! for no sooner is the report heard by the engine-drives, than he applies the break and the train is stopped. The signal has been introduced by Mr. Martin on the Eastern Union line.—Exect Herald,

THE IRON AND COAL TRADES OF AMERICA.

THE IRON AND COAL TRADES OF AMERICA.

The committee of the Iron and Coal Association of Pennsylvania have made a report, for 1846, on the statistics of the produce of these minerals in that state, from which it appears that a large increase is taking place in these products. By the census of 1840, the number of furnaces was 213, and 169 rolling mills, bloomeries, and forges; in March, 1842, returns were procured from 72 charcoal and 7 anthracite furnaces, producing, in the aggregate, 84,885 tons, and employing upwards of 4800 men; 30 rolling mills produced 20,800 tons of bar-iron, 2400 tons boiler plate, 1200 tons sheet, 10,020 tons nails, and employed 1643 men and 54 furnaces in this production, or an average of 1074 tons per furnace; the largest of these, Messrs. Shoenberger and Co., produced 2081 tons, and the others ranged from 1200 to even as low as 35 tons. The entire produce of pig-iron, in 1842, was 151,885 tons of pig metal; there have been erected since, 65 new furnaces, which produced, in 1845, 31,414 tons, and employed 1687 men and 740 horses, and calculated to produce, in 1846, 78,100 tons, and to employ 4230 men and 2200 horses, and 7 additional furnaces. Twenty-eight anthracite furnaces produced, in 1845, 22,844 tons of iron, and were calculated to produce, in 1846, 107,200 tons, and 15 anthracite rolling mills manufactured about 45,000 tons of plate and railroad iron; the whole amount of iron, to be manufactured in 1846, is estimated at 216,171 tons, or an increase of 100 per cent. over 1842, with a capital of \$20,190,658, employing men, women, and children, to the number of 170,060. These an Act for making a line of railway in connection with the Regent's Canal Company,—Mr. Bethune took the chair, and urged the propriety of making the line, with a view to protect themselves from injury from any railway company unconnected with the canal interest; the committee thinking the late report of the commissioners held out encouragement to them to assist in the formation of the proposed railways surrounding London and connecting the goods stations, and being now freed from any liability towards the Regent's Canal Railway, who had forfeited to them 5000t, requested Mr. Rendell to survey a line in the direction most advisable for the interest of the canal proprietors, which was one to go from Paddington to Limehouse, with a branch to the West India Docks, which (he estimated) could be made for 685,000t. The length of such a line would be about 8 miles 7 furlongs, and it would be mostly along the banks of the canal, and, when diverted, could be made at a trifling cost. The recommendation of the committee was, that proceedings should be at once commenced, with a view to obtain an Act of Parliament for the purpose in the noxt session.—The Chatman's moved the adoption of the report, which was passed unanimously.—A discussion took place, in which Mr. Green, Mr. Robinson, and others, took part.—The Chatman's said, they had power to make the railway already, but not to join the Great Western. The shares of the railway would be appropriated to the canal proprietors.—A vote of thanks was then passed to the chairman, and the meeting adjourned.

\*\*Dank of Cextors.—The annual meeting of shareholders was held on Thursday last, at the company's offices. New Bread-street.—Thoma's Young. Eso.

amount of iron, to be manufactured in 1846, is estimated at 216,171 tors, or an increase of 100 per cent. over 1842, with a capital of \$20,190,658, employing men, women, and children, to the number of 170,060. These returns certainly speak well for the energies and perseverance of the people of America; and, should the production keep pace with this increase, she will probably be enable to supply her population, without importing from England, as she has hisherto done; and as to economy, it is represented as having been produced at even a less price than it could have been procured, free of duty. In the nail trade alone there are 60 houses, which produced, in 1845, 1,062,000 kegs.

With respect to the coal trade, we find that, in 1842, only 572,000 tons of anthracite were sent to market; while, in 1845, the quantity was nearly doubled, being 1,132,000 tons; and the capital employed in railroads and collieries, which, in 1842, was estimated at \$17,526,000, had increased, in 1845, \$9,330,000, being \$26,856,000. The committee, in concluding their report, express their regret that the absence of any organised plan for registering data, by which statistical information can be obtained, prevented their extending their remarks; and strongly urged the necessity of preserving their organisation, and use every effort to keep correctly the statistics in relation to these sources of national industry, as it was evidently clear that Government would not establish a board for the purpose; and it must, therefore, be procurred by the industry of individuals, inspiring each other with that zeal necessary for carrying out so useful an inquiry.

IMPROVED BORER FOR WELLS, &c.—Messrs. Speakman and Stratton (of Philadelphia) have obtained a patent for a new instrument for boring into the earth; it consists of a hollow tubular shaft, at the lower end of which are the cutters, so arranged, that by a handle at the upper end, connected by wires to them, they can be drawn within the tube, for the purpose of withdrawing the borer; when working, they project beyond the edges of the shaft, and thus always form a hole larger than itself, and by withdrawing them within the hollow, the tube is more easily withdrawn, having no pressure from the surrounding earth.

IMPROVEMENTS IN THE HOT-AIR FURNACE.—G. Chilson (of Boston, U.S.) has patented a new construction of furnace for the hot-air blast; the furnace is dome-shaped, with an inner and outer chamber; the cylinder of the fire chamber is connected by a passage with the central hot-air chamber, through which the heated air is discharged, and the air in the two chambers is distributed over a greater extent of heating surface, than by any other arrangement hitherto known. The cast-iron top plate of the ash-pit is made with cells, filled with non-conducting materials for the fireplace to rest upon, and thus prevent its cracking by the heat, which would be conducted to it by the common arrangement.

DEMERARA RAILWAY COMPANY.—We understand that the committee of management have obtained from the local authorities of British Guiana an Act of Incorporation, by which the most ample powers are vested in them for carrying out this important project. M. Catherwood, the company's engineer, has just returned to this country, having fully completed all the necessary surveys: he has made a report to the directors, accompanied by plans and sections, and which have been approved by Mr. Locke, the consulting engineer, from which it is confidently expected that the line can be completed for 30 per cent. less than originally estimated; and from the nicest calculations which have been made since the publication of the prospectus, and, from having been made at leisure, can be better relied on than those made on the formation of the company, there is every reason to believe that the traffic returns will be considerably more than was at first contemplated. The registration of the shares is now taking place, which will be completed by the 30th inst., immediately after which the first general meeting will be called, when the reports, plans, and estimates, will be laid before the shareholders. DEMERARA RAILWAY COMPANY .- We understand that the committee of

mates, will be laid before the shareholders.

Draining of the Lake of Haarlem, the Hague, Nov. 3.—When the trial of the engine called the Leeghvater, all the parts moved with great regularity, and the eleven pumps, at every stroke of the piston, raised 66 cubic metres of water. Though every time such a mass of water was raised the engine was subject to a pressure of more than 200,000 kilog., hardly any shock was felt in the vessel, and the only noise that was heard was that made by the flowing off of the waters that were raised by the pumps. The number of strokes of the piston was about 7 in a minute. The water was raised to the height of 1.30 to 1.50 metres, and the pressure of the steam in the boiler was from 30 to 35 lbs. English. If it should be necessary in draining the Lake of Haarlem to raise the water from a greater depth, the force of the steam-engine may be safely increased by 70 lbs. English, and by this means the celerity of the play of the pumps might, perhaps, be increased. At present, taking the operation as it was on the 1st of Oct., this steam-engine is able to raise, deducting the loss, 450 cubic metres per minute, or 448,000 in 24 hours, which is about 45,000,000 or ordinary palls; the power of the engine may be estimated as equal to 300 horse power. Whatever be the quantity of coals employed to obtain as ogreat a power, the expense may always be diminished by the continuance of the operation. A former experiment has always proved that no more than two kilog, of coals per hour was necessary to obtain one-horse power, whereas seven kilog, of coals were required for the ode since employed at the Zuidplay. Notwithstanding the important saving of coals which the Leeghvater affords, the engine still requires 200 bushles of coals to obtain the result expected from it.

STILLING AND DUNFERMLINE BURGHS.—We have learned with much pleasure that Mr. Alison, of Oakley, has a fair prospect of being returned as representative of these Burghs, at the next general election. We see it stated in the Times, that nearly one-half of the constituency has declared in his favour, and we know through other sources that this is correct. Mr. Alison is a man of independent political opinions, of Christian profession and character, and the advocate of every good object, to which he contributes largely of his means. It is such men whom we need in Parliament: Mr. Alison, we believe, employs at Oakley, some 2000 workmen, and pays out about 10000, weekly in the shape of wages. His extensive connection with trade must lead him to take a deep and intelligent interest in the commercial affairs of the country.—Witness.

#### NEW PATENTS AND REGISTRATIONS.

Extracts from the Mechanics' Magazine Weekly List of Engusa ratems.

G. W. Eddy. Waterford, New York, for an improvement in the manufacture of cast netal wheels, for railway and various other carriages.

H. C. Wetterstedt, Rhodes Well-road, Limehouse, for improvements in the manufacture of sheet metal, for sheathing and other purposes, in preventing the corrosion of metal,

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and in the preservation of wood and other materials.

W. Exall, Peading, Berks, engineer, for improvements in the construction of wheels, and in certain implements or tools employed therein, and in the mode of forming and manufacturing the tires of wheels, which mode is applicable to making metallic rings, bands, hoops, cylinders, and other similar articles.

A. V. Newton, Chancery-lane, mechanical draughtsman, for certain improvements in the manufacture of driving bands, part of which improvements are applicable to the manufacture of other fabrics.

M. Le by, Graut Geogre-street, Westminster, C.E., for improvements in steam-engines. F. H. Makerly, Stowmarket, clerk, T. Branwhite, Buttlesden, millwright, and D. Lusher, Great Finborough, farmer, all in the county of Suffolk, for improvements in machinery for obtaining and apply 'ng, and for accelerating, and for retarding, motive power, and for giving notice of alarm in expectation of, or in actual, danger.

MINE ACCIDENTS.

Over Darwes, near Preston.—J. Rainforth, aged nine years, was killed, while working with a companion, aged ten years, in Messrs. Brandwood's colliery.

Accident from Blasting.—As M. Bawden, G. Tripp, and P. Penhalurick, after ling bored a hole for blasting in a rock of granite, and charged it with about 3th be. of powder, tamped it up, and set fire to the safety fuse; but, by some means or other, the charge did not go off. Tripp then began to pick out the tamping; and after he had picked out about 5 or 6 in.. he desired Bawden and Penhalurick to pick out the remainder, whilst he went for some more powder. Instead of doing so, however, they attempted to bore it out, which is a more expeditious but a far more dangerous proceeding; and whilst thus employed, the charge exploded. Bawden died from the injuries he received, and Penhalurick is likely to recover—but it is feared that he will lose the sight of both eyes. Moustain Level, Pontypool.—R. Dobbs was killed by a fall of roof.

Caractoa Cossols.—A poor fellow (having a wife and 10 children) was struck blind by a premature explosion, in blasting: another lost the sight of one eye.

NEWBRIDGE AND TAFF VALE COLLIERY,

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This valuable collegery is situate in the parish of Lianwonno, in the county of Glamorgan, in the centre of the South Water Minoral Basin, contiguous to New Brings, 12 miles from Cardiff; shift the Tar Valle Railway, from Cardiff to Merthy Tydvil, runs through the property—granted, by a lease of 350 serves, for the term of 31 years. The property is surrounded with profitable collection—one of which (Mr. Coffin's) adjoins this, and supplies the Great Western Railway. Three sciences rea found to be throughout this property—the Goffion Vein, 3 ft. disk.—the Causmor Vein, 3 ft. thick.—and Coffin's Vein, 4 ft. ick.

These veins—proved by the usual comparation—will yield an aggregate quantily of fice millions tons. This, by working 200 tens per day, from one pit only, at a profit of 25. dd. per ton, will yield a clear iscome of upwards of £7500 per annum; but, at this rate of produce will last considerably more than thrice the period of the lease, the collegy will be worked by more pits, and, consequently, yield a profit of at least £30,000 per annum, at a cost of, say, 56, per ton, and sale is, 6d, per foit; but Mr. Coffin obtains considerably more per ton; and, therefore, it is bast fair to suppose the present company will obtain the same, in which case, the profit will be upwards of £30,000 per annum. Even this large sum cannot be supposed to be toe highly estimated, when it is recollected that the utmost cost is estimated at 6s, per ton, and the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of the sale only as the moderate price of 8s. 6d. per ton of th

Sale, 8s. 6d.—Cost, 6s. 0d.—Profit, 2s. 6d. per ton.

Application for shares, to be made to Mesers. Roberts, Carter, and Co., mineral surveyors, 21, Portman-street, Portman-square, where the engineer's calculations may be seen in detail (also a plan of the property, and conditions obtained).

Prespectuses, &c., may be had at the office of the Mining Journal, 26, Einet-st., London.

SILVER-LEAD MINES, ABERGWESSIN, BRECKNOCK-SHIRE.—1000 shares, of £10 ach.
Counting-house on the Mines—1000 shares, of £10 ach.
LONDON AGENTS.
Mesers, Roberts, Carter, and Co., 21, Fortunan-street, Fortunan-square,
These mines comprise the whole of the Nant-y-Brain and Gwegellhendda Estates, and alse half-a-mile of the Trawsmant Estate; the whole comprising a run of nearly two miles on the course of five large lodes or velus, which have been wrought so productively in Lord Cawdor's mines.

Cawdor's mines.

The veins on this property are in a beautiful killas, firm, yet sufficiently soft to be good standing and working ground. They are composed of gossans, flookans, prian, pulverized mundles, &c., &c., of the most beautiful description, intersected throughout with prills, strings of lead, and fitable ones. The first vein cut through by the add thevel is 8 ft. wide, at 2 fms. from surface; the next is supwards of 20 ft. wide, and at the add level 7 fms. from surface would pay for saving work; two tons of ore having been saved in cutting through the vein. The third vein passed through in the addit level is only about 4 fms, south of the second, and is 25 ft. wide, and stadded through with gossans, prian, mundles and spots of lead.

the recond, and is 25 ft. wide, and studied through with gossans, prian, roundes and spots of lead.

The leases of the Abergwessin Mines are duly executed for 21 years, at a royally of one-twelfth, for the first 10 years, and one-tenth for the remainder of the term. In the Nanty-Moyn part, these veins have been wrought for very many years, and have yielded more than 1,600,000£, profit. They are now working by Messra. Williams and Company, at Scorrier House, Cornwall, and, at the high royally of one-clight, are returning great profits. The unineralization of the voins presents the same characteristics in each mine. In Lord Cawdor's mine, west, the voins are proved to have formed a junction at the base of the mountain; and a precisely similar junction of the voins is proved to exist eastwards, at the base of the mountain of the Abergwessin Mines, where the voins are all laid open at surface; three of these voins have been cut through by an adit level or tunnel, now continuing to cross-cut the other yelins. This said can be carried him the mountain 80 to 100 or more fins, deep, on the course of each voin. These mines have also the great advantage of being conveniently wrough at three several points.

It is inhended to make communications from shart to shaft, by the cross drifts, which will out the lodes at the 10, 20, and 30 fm levels water for when dyidends may be confidently anticipated, as the blocks in this property are richer at the same depth than they were in Nanty-Moyn.

About a mile from these operations, and in this property, a shaft has been sunk, and one of the lodes cut, under very favourable circumstances.

There is ample water power for drainage and surface operations, slate for rouning, brick and fire elsay, and stone for every purpose—also, abundance of peat of the finest quality, for the use of the mines, free of any charge.

Assays of the over have produced 80 per cent. of pure lead.

Prospectuses and plans can also be had, on application, at the office of the Mining Journal 26. Fleet-street, London.

DAGMILL TONTINE.—PROSPECTUS of a TONTENE, for the DISPOSAL of a valuable FREEHOLD FARM, in the fertile parish of ST.

STEPHENS, by Saltach, CORNWALL, now in the possession of the owner.

Amount to be subscribed, or paid, for the purchase of the farm, and the defrayment of the expenses of the formation of the Tontine, £4000.

In 200 shares, of £20 cach.—Deposit £5 per share.

TRUSTERE.

WILLIAM HENRY PRANCE, Esq., of Plymouth.

GEORGE B. MURLY, Esq., of Langport.

BASKESS—The Devon and Cornwall Banking Co., Plymouth, and its several branches.

SOLICATORS.

Mr. H. A. Omey, Saltach; Messrs. Woollcombe, Square, Stephens, & Prance, Plymoutis.

DESCRIPTION OF THE PROPERTY.

The estate, or farm, called Bagmill, comprised in the above Tontine, is situate on the banks of the navigable part of the river Notter, in the said parish of M. Stephens; distant about one mile from the proposed Cornwall Railway, which is intended to pass the rivor Tannar, by a bridge at Sathash, siready authorised by Act of Parliament. It consists of a deciling-hose, garden, barn; and other sinitable farm bufflings, and contains above 48 acres of smalls, meadow, orchard, and pasture land. It is watered by soveral never falling streams, which, by fudicious management, and a small outlay, might be a diverted as to trigate, if required, nearly half the estate, and might be applied, if necessary, to the working of gowerful machinery. The ostate was recordly let on leave, at the annual rent of £400; but is now in the hands of the proprietor.

pure this machinery. The estate was recently let on lease, at the annual rent of £100 but is now in the hands of the proprietor.

PLAN OF THE TONTINE.

Each subscriber shall have the option of naming either himself or herself, or any other person whose age next birthday shall not be less than 70 years, but shall not be at liberty to appoint any nomines whe has been previously named.

The surplus rents after payment of the current expenses of the management of the fontine; to be divided annually on the 25th day of December preceding.

Each subscribers on proprietors whose summers were living on the 25th day of December preceding.

Each sury, on subscribing for a sunre or shares, is to pay a deposit of 25 per share to the bunking company above named, to the credit of "The Eagmill Tourine," and shall before the expitation of 30 days after; such payment, deliver to the solicitors a written nomination of a life as his or her nomines, in respect of each such shave, whose age on the next birthday shall be at least 70 years, accompanied by a certificate of haptism of such nomines, or by such statutory declaration, or other evidence of the age of such nomines, such each slower shall reasonably require; and shall pay the residue of his or her subscription on the 25th day of December next.

Tast, it any of sucommittees shall die before the whole of the shares shall have been taken, either by subscribers, or by the owner of the fairn, as mentioned below, the party nomining such life may substitute another, whose age on the next hirthday shall not be less than 70 years, as aforesaid.

Upon the death of all the nominees, save one, the Tontine shall be determined, and the whole of the said farm shall become the absolute property of the subscriber or proprietor, owning a share of shares, such cases may be, upon the life of the last surviving nomine; unless than 4 may be a fair to the complete of the payment of the meaning of the two trustees, and the property of the limb being, to determine the Tontine is to be completed by th

And, thereupon, the maynest thereout, by him, of all the costs and expenses of the formation of the Tentine, and preparation and execution of the deeds for effecting the same.

The farm is subject to a charge during the life of a person now aged 83, or thereabouts, against which the owner will enter into a covenant of indemnity with the trustees.

The trustees shall be always two in number; and, in case of a vaccancy, it shall be filled up on the nomination of the majority of the votes of the proprietors, personally present at a meeting convened for such purpose. Each proprietor to have one vote in respect of every share held to like of reference. If, on the 23th day of December next, any shares shall remain unsold, the same may be taken by the owner of the farm, on his hominating such lives in respect thereof as after said, if he should thin proper so to do; but if he shall decline to take the same, then unless the whole thereof shall be disposed of before the 25th day of March following, he stall term the deposits to the absorbers without any deduction.

A list of the subscribers, centaining their names and residence—also the name, age, and residence of the properties. Will be prepared by the solicitors to the Toutine; and the same shall be approved by coursed to be commitated. By them.

Applications for shares, prospectuses, and plans, may be made to Mr. H. A. Olivey, solicitor, Sareshy Messes. Fuller and Safwell, 15, Carton Chambers, Regent-street, London Messer, Wooleoune, Square, Stephens, and Prance, solicitors, Tyrnouth; G.B. Murly, Ben, solicitor, Langeort, Somorses, and to the Saare Brokers of Flymouth.

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Name and address of referee

BRISTOL AND PROSPECTUS OF THE PROSPECTUS OF THE

PRISTOL AND POOLES HAKEBULE RALLWA.

Capital \$2,00,000 in 2000 AND STATES.

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Trade or pro \*\* Applications for shares may be made, in the above form, at the offices of the copany, 55, King William-street, City i Gilbert-Stephens, Eq., 13, Northamberland strestrand; Messrs, Castleman and Kingdom, solicitors, Wimborne, T., Hyati, Esq., solicitor, Foots, Stephens, Ste

TOOTH-ACHE, TIC. DOLOREUX, & EAR-ACHE, instantly, OURED, by using the calebratest GREGORIAN PASTS, which has never been known to fail in one single assumes. He is perfectly harmless, and applied with the greatest same. The frequents of the frequents of the calebratest of the contract of the contract of the calebratest of the calebrate

UNIVERSAL GAS BURNER-THIRTY TO FIFTY PER NIVERSAL GAS BURNER.—THIRTY TO FIFTY PER CENT. SAVED!—The PATENTEES beg to call public attention to the following facts. The advantages resulting from the invention are various and striking. Independently of a saving of 30 to 50 per cent., the combination is perfect, and the brittance produced superior to any light hitherto discovered. It combination is perfect, and the brittance produced superior to any light hitherto discovered. It continues the same product of the period; and such is its parity, that it neither affects nor solis the most delicate colour or the finest fabric. Objections have been made to the introduction of gas are timeling-houses, to the expense of fittings, to its destruction of furniture, disaperies, gold moulding, &c.; these are entirely obviated by the PATENT UNIVERSAL GAS BURNER. As the cost of laying or gas is much lower than is commonly supposed, it is adapted for pivate dwellings, as well as for club-houses, hotols, manufactories, and public buildings. One of the small burners is amply sufficient to light a good-sized room, at a sum immeasurably lower than spirit, oil, or candle, with the evoldance of waste or trouble.

The marks of the "Burner," its brilliancy and economy surpassing every other known light, are shown by the ammexed authentic opinions of the qualities of the UNIVERSAL GAS BURNER.

GAS BURNER:
EXTRACT from the "Proceedings of the Institution of Civil Engineers," Tuesday, May 6
1846—Six Joins Rennie, president, in the chair.

"A gas burner, of a novel and ingenious construction, was exhibited. The principal novelty was the introduction of a stream of air to the centre of the flame by a hollow button in the middle of the burner. The air passing up through the hollow seem of the button, was heated, and pussed out by two series of fire-holes around the periphery, and impinging with force on the flame of the igns curved it outwards in the shape of a tuilly, while the oxygen of the air, mingling with the carbursteed bydrogen gas, produced a very perfect combustion. The flame cots quite shield closes to the top of the burner—was very steady, as was samply deministrated by the excellent light of the institution, where these burners have been used. In comparing the consumption of those burners with that of the concentric cing barriers, and trying the power of the two lights by the photomater, the new burner gave a better light, with a saving of rather more than one-third.

burner gave a better light, with a saving of rather more than one-third.

CRETIFICATE.

POLYTECHNIC CHEMICAL SCHOOL. "In testing Clark, McNeil, and Co's Universal Gha I Burner with one of the best shadowless burners, it gave a more pure and brilliant light, with a saving of 20 to 25 per cont."

GEORGE CRIP, Engineer, Robert Lorenotton, Secretary.

"The sories of experiments made upon Clark, McNell, and Co.'s Patent Universal Gas Burner, its superiority was satisfactorily established in occoming and the quality of the light; tested against argand burners, Nos. 4 (12 holes), and 6 (15 holes), it afforded a saring of at least 25 per cent, and against three fish-tails burners, No. 4, 40 per cent. The colour and brilliancy of the James is superior to any other burner.

T. W. KEATES, Consulting Chemist, J. D. PAEMER, Mechanical Inspector.

The Universal Gas Burner is used nightly at the Polytechnic Institution, and may be had and seen from 11 fill 4, at the patentees, 60, St. Martin's-lase Charing Cross, and of all gas fitters in London.

GREAT BRITAIN MUTUAL LIFE ASSURANCE SOCIETY, 14, WATERLOO-PLACE, LONDON.

DIRECTORS.

THE CHISHOLM, Chairman | WM. MORLEY, Eacl., Deputy-Chairman | WM. MORLEY, Eacl., Deputy-Chairman | LALF CREDIT RATES OF PREMIUM.

The attention of Assurance is particularly directed to the Half Credit Rates of Premium-by which means assurances may be effected, and clause for short periods secured with the loast possible present outlay, and at a less premium than for short terms only, and with the option of paying up the arrears and interest—thus becoming entitled to participate in the whole of the profit of the institution.

the opinion of paying up the arrears and interest—thus becoming entitled to participate in the whole of the profit of the institution.

Extract from the Half Credit Raise of Premium.

Age 20.

Age 30.

Age 40.

Age 60.

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Thus £1000 may be assured at the age of 30 by the annual payment of £10 103. 103. for the first five years.

The whole of the profits divided Annualta among the members, after payment of five annual premiums.

An ample guaranteed capital, in addition to the fund continually accumulating from premiums, fully sufficient to afford complete security to the policy-holders.

Members assured to the extent of £1000 entitled (after payment of five annual premiums) to attend and vote at all general meetings, which will have the superintendence and control of the fundes and affairs of the society.

Full particulars are detailed in the prospectus, which, with every requisite information, may be obtained by application to A. E. IRVINE, Managing Director.

NO BREWING UTENSILS REQUIRED.

NO BREWING UTENSILS REQUIRED.

PATENT CONCENTRATED MALT AND HOP EXTRACT enables PRIVATE INDIVIDUALS to MAKE
WITHOUT EMPLOYING ANY BREWING UTENSILS.—It has only to be dissolved in hot-water and fermented.—Sold, in jars, for medicinal and other purposes, at 1s. and 1s. 6d.; and in bottles for brewing 9 to 1s gallons and upwards of alc, at 6s. 6d. and 12s. 6d. each, by the
REITISH NATIONAL MALT EXTRACT COMPANY,
NICHOCAS-LANE, LOWERED STREET; Petty, Wood, and Co., 53, Threadneedle-street; Wix and Sons, 22, Leadenhall-street; Hatty and Co., 1s, Finsbury-pavement; De Castro and Peach, 63, Piccadilly; Hockin and Co., 3s, Duke-street, Manchester-square; and oilmen and grocers generally.

Also, just published, and may be had grashs,
NATIONAL BREWING: A GUIDE to the USE of CONCENTRATED MALT AND HOP EXTRACT, for BREWING and WINE MAKING; to which is added, MEDICAL OPINIONS relative to the virtues of malt and hops.

CURTIS ON NERVOUS AND GENERATIVE DISEASES.

Just published, a Medical Work, in a sealed cavelope, 3s., and sont, post-paid, for 3s. 6c. MANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration and direction and

ANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration; addressed to those suffering from nervous debility or mental critation, followed by observations on Marriage: the troatment of diseases of the generative system; illustrated with case, &c. By J. L. CUETIS and Co., consulting surgeons, T. Frithestreet, Soho-square, London.

Published by the authors, and may be had at their residence; also sold by Strange, 21, Paternoster-row, London; Guest, D., Bull-street, Birmingham; T. Sowier, 4, St. Ana's-square, Manchester; G. Phillip, South Castic-street, Liverpool; W. and H. Robinson, booksellers, Greenado-street, Edinburgh; Campbell, druggat, Angyl-street, Glasque; and sold in a scaled envelope by all booksellers.

MANHOOD. By J. L. CURTE and Co. (Strange)—In this age of pretension, when the privileges of the true are constantly userped by the false and fraudient, it is difficult to afford the sufferer from survenus debility, the untering means of judgment where to seek relief. The authors of this work have obviated the difficulty. Their long experience and reputation in the treatment of these patural diseases is the pattent's guarantee, and well deserves for the west its immence circulation.—Erec.

CURTE ON MARMOOD (Strange).—A perusal of this work will easily distinguish its intented authors from the host of medical witers whose protensions to cure all diseases are daily so indecently thrust before the public. Its originality is apparent, and its parasal breathes consolation and hope to the mind of the pattent. Avada and Milliary Gazette. Curris on Marmood should be in the hands of youth and old age. It is a medical handless which has too long been the prey of the illiterate and designing.—United Service Gasette.

Messra. Carris and Co. are to be consulted daily at their residence, No. 7, Frith-street, Sotio-square, London.

Accounty Faffents are requested to be as mirrate as possible in the detail of their cases. Country Faffents are requested to be as mirrate as possible in the detail of their cases. The communication must be accompanied by the usual consultation fee of  $\mathcal{L}1$ , and the work sent to any address for 3s. 6d. in postage stamps, direct from the authors, or either

The Nineteenth Edition, price 2s. 6d.; free by post, 3s. 6d.

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THE SILENT FRIEND; a medical work, on the concealed cause of constitutional or acquired debility, loss of muscular energy, and derangement of the generative system, nervous debility, constitutional weakness, excessive indulgence, &c., with Observations on Marriage, &c. By R. and L. PERRY and Co., surgeons, London. Published by the authors, and sold at their residence; sales by Strange, 21, Paternoster-row: Hannay & Co., 63, Oxford-street; Noble, 109, Chancery-lane, 6gr-don 146, Leadenhall-street; Purkiss, Compton-street, Solo, London.

Part I. of this work is addressed to those who are prevented from forming a matrimonial althance, and will be found an available introduction to the means of perfect and secret restoration to manhood.—Part II. treats upon those forms of diseases, either in their primary or secondary state, arising from infection—showing how numbers regiced toobtain competent medical aid, entail upon themselves years of misery and suffering. The CORDIAL BALM of SYRIACUM is a stimulant and renovator in all casesofted state of originalisation. Sold in bories, price 11s, and 38s.

THE CONCENTRATED DETERSIVE ESSENCE.—An anti-sphillite romety for scarching out and purifying the filod of from veneral contamination, scorry, blotches on the head, face, and body, ulcerations, and those painful affections arising from improper treatment, or the effects of mercury, or secondary symptoms. Price 11s, and 33s. per bottle; also 55 cases.

PERRY'S PURIFIING SPECIFIC PILLS are perfectly free from mercury, canadra.

66 cases. RRY'S PURIFYING SPECIFIC PILLS are perfectly free from mercury, capatry other deleterious drugs, and may be taken with antely without interference with o 9d., 4s. 6d., and 11s. each, by all medicine renders—of whom may be had the S Friend.—Meesra, R. and L. Ferry and Co. may be consulted at No. 19, Berners-st Oxfort-sit-set, London, daily.

ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY,

SELF-PRESERVATION: A Medical Treatise, on Marriage, and on the Secret Infirmities and Disorders of Youth and Maturity. on the Secret Infraritios and Disorders of Youth and Marriage, and on the Secret Infraritios are the secret Infraritios and Six and Maturity. Illustrated with 26 coloured plates on the anatomy, physiology, and diseases of the urinary and reproductive organs, explaining their various structures, nees, and functions, and the infrare that are produced in them, by solitary habits and other excesses. With practical observations on the treatment of networn debility, local and constitutional sweatness, spitalis, stricture, and other diseases of the archive. By SAMUEL LANERT, committing surgeon. 5, Scaling-treet, Sector-desquare, London, Matterdistant Member of the Inversity of Edinburgh, Honorary Member of the London Hospital Medical Sector, Localists of Apothece Mail, Locales, Sec.

With earther of this singular and talented work is a locally qualified modical man, who has availantly hade-outsiderable susperfence in the treatment of the various disorders, arising from the follows and trailing of early indisoration. The suggravings are an invaluable addition, by demonstrating the consequences of excesses, which must set as a salingry warning to youth an instructy, and by its perman, many acceptances are sufficiently replied to, that admit of as appeal, even to the most confidential fusion.—Early

O BE LET, ON LEASE, the IRONSTONE in TEESDALE, in the county of Durham, belonging to ctent of 30,500 acres.—Terms and condition arth, Eag., R by Cas'le, near Darlington. onditions may be known on approon.—Raby Castle, Oct. 23, 1846.

CAST LINCOLNSHIRE KAILWAY.—TENDERS FOR IRON RAHLS AND CHAIRS.—The directors are prepared to RECEIVE TENDERS for ONE THOUSAND SEVEN HUNDRED TONS of IRON RAILS, and SIX HUNDRED TONS of IRON CHAIRS.—The sections of the rails, and drawings and models of the chairs, may be seen at Mr. Fowler's offices, 13 Abingdon-street, Lendon, wideys if further information may be obtained.—Louth, Oct. 29, 1846.

HEFFIELD & LINCOLNSHIRE JUNCTION RAILWAY —TENDERS FOR IRON RAILS AND CHAIRS.—The directors are prepared to ECELVE TENDERS for the SUPPLY of ONE THOUSAND FIVE HUNDRED TONS IRON RAILS—each rail to be 15 feet in length, and weighing about 70 lbs, per yardhe exact process of manufacture must be described which it is proposed to adopt, so as produce the best quality of iron in the rails. It is indispensable this description should company the tender; and the company will require from the party whose tender may accepted, full authority for an agent to inspect the process of manufacture adopted the works.

be accepted, full authority for an agent to inspect the process of manuscture acopted at the works.

The directors are also prepared to RECEIVE TENDERS for the SUPPLY of FIVE HUNDRED TONS of HOS LIBBS—the joint-chairs weighing about 30 lbs., and the middle chairs about 30 lbs. The chairs to be east from best No. 2 pig-from (without any admixture of Societh), and run from the capola, and must be manufactured by Messangamann and May's patent process.

The rails and chairs to be delivered on the line, at the town of Sheffield; and also on the Midland Railway, at or near Heighton—as ordered by the engineer.

The first earge to be delivered in the first week in January, 1847; and afterwards in equal monthly quantities, until January, 1846, when the whole must be delivered.

The section of the rails, and drawings and models of the chairs, may be seen at Mr. Fowlor's offices, 13, Abingdon-street, Lundon, where any further information may be obtained.

Teadors to be delivered on or before the 17th Nov., at the company's offices, Sheffield.

By order of the directors,

J. H. HUMFREY, Secretary.

BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY
RAILWAY.—At the First General Meeting of the shareholders of this company,
ueld on Friday, the 30th Oct., 1846, at Three o'clock, at Dee's Hoyal Hotel, Birmingham,
WILLIAM MATHEWS, Esq. (the chairman of the company), in the chair.
The Secretary having read the advertisement convening the meeting, and produced the
capture of shareholders—
It was moved by the chairman, and seconded by Charles Telford, Esq.,
That the register of shareholders, now produced, be suthenticated by the common seal
of the company.

That the regard to same road—
It was moved by the Chairman, and seconded by Richard Spooner, Esq., M.B.,
That the report of the directors, now read, be received and adopted, and printed for circulation amongst the shareholders.

m amougst the shareholders.

was moved by E. Buller, Esq., M.P., and seconded by Francis Mowatt, Esq., the following gentlemen be, and they are hereby elected, the directors of the The LORB HATHERTON
THE AIR OF DARTMOUTH
THE LORB HATHERTON
THOMAS BAUKALL, Esq.
PHILLIP H. MUNTZ, Esq.
HENNEY GRANE, Esq.
WILLIAM LEVIS, Esq.
WILLIAM MATHEWS, Esq.
CHARLES SHAW, Esq.
CHARLES SHAW, Esq.
CHARLES RUSSELL, Esq., M.P.
CHARLES RUSSELL, Esq., M.P.

Richard Spuoner, Esq., M.P., Charles Russell, Esq., M.P.

It was moved by E. Buller, Esq., M.P., and seconded by John Crostinwaite, Esq.,
That the sum of \$2500 per annum be paid to the directors for their attendance to the
business of the company—to be divided in such way as they may arrange; and that the
tunks of the meeting be given to the late directors, for their grautious services and attention to the interests of the company.

It was moved by the Chairman, and seconded by Phillp Henry Muntz, Esq.,
That John Aston, Esq., of Birmingham, and Henry Scott, Esq., of west Bromwich, be
slected the auditors of the company, and that they be allowed \$20 each per annum.

It was moved by the Chairman, and seconded by Richard Spooner, Esq., M.P.,
That the salary to the secretary be at the rate of \$500 per annum.

It was moved by the Chairman, and seconded by Francis Mowatt, Esq.
That, as this meeting deem it expedient that an amalgamation of this company with the
Birmingham and Oxford Junction Railway Company should be formed, the directors be
sutherfield and requested, in conjunction with the directors of the Birmingham and Oxford Junction Railway Company, to apply to Parliament in the next ensuing session for
an Act, or Acts, to carry such amalgamation into effect—providing in the said Act for
power to lease or sail the two lines when amalgamated, or any part thereof, to the Great
Western Railway Company—the directors being requested, and authorised, at once to negotiate with that company for some arrangement for that purpose.

The chairman having vacated the chair, it was moved—
That Richard Spooner, Esq., M.P., do take the chair.

It was moved by Lord Hatherton, and seconded by Charles Russell, Esq., M.P.,
That the best thanks of the meeting be given to the chairman, for the zeal and ability
with which he has conducted the business of the day.

WESTERN GAS-LIGHT COMPANY.—At a Meeting of the freeholders, leaseholders, and labellight broaders. freeholders, leaseholders, and inhabitant householders of Konsal-green, and its inity, called by the directors of the Western Gas-Light Company, in pursuance of a uniation from the before-named parties, and held at the Plough Tavern, Kensal-green, Wednesday, the 4th Nov. Inst., the following resolutions were unanimously agreed to:—

requisition from the bebre-named parties, and held at the Flough Tavern, Kensal-green, on Wednesday, the 4th Nov. Inst., the following resolutions were unanimously agreed to:

Proposed by Mr. Maxwell, seconded by Mr. Brown, and resolved,—
1. That the company having distinctly stated it has been established for the manufacture of a pure and more brilliant gas than is now in use, to be made upon an entrely new principle, which will not contain any of the stulphuretted hydrogen, carbonic acid, and other noxious gases, that more or less containnate the gas now used in the metropolis; and as the company, by the erection of works, and thereby jeopardising their property, afford the most ample assurance that the gas will not, in manufacture or use, be either a nuisance, or in any way offensive, or injurious to health or vegetation: resolved, that the inhabitants do postpone any further opposition to the establishment of the works, until, by the actual manufacture of the gas, it can be clearly ascertained whether it will be a nuisance or a public good.

Proposed by Mr. Abercromble, seconded by Mr. Chamberlain, and resolved,—
2. That this meeting, being thoroughly satisfied with the explanations and extracts from numerous affidavits of highly scientific men, given both by the chairman and engineer of the company; and, considering that the erection of the Western Gas-Light Company, assurance that no nuisance will be created by the manufacture of their gas.

Proposed by Mr. Langham, seconded by Mr. Dove, and resolved,—
3. That the best thanks of this meeting be given to the directors of the Western Gas-Light Company, for their promptitude in calling the meeting, and for the liberal spirit which has induced their cordial compliance with our requisition.

Proposed by Mr. Langham, seconded by Mr. Johnson, and resolved,—
4. That G. L. Taylor, Esq., do leave the chair, and that Dr. Rose be called thereto.
6. That the resolutions be advertised in the daily newspapers, and the Missing Journal.

THE PROJECTED RAILWAYS.

THE PROJECTED RAILWAYS.

PATENT METALLIC SAND OR ENGLISH POZZOLANO.

The PROPRIETORS of the METALLIC SAND, after many years' experience of its merits, confidently RECOMMEND it to the attention of Engineers, Architects, Builders, and the public generally, as an invaluable article for HYDRAULIC and OTHER WORKS requiring great strength and durability.

In analysis, the metallic sand is very similar to the Italian Pozzolano—the value of which, in all adaqueous works, isso well known to engineers and architects; but from its granular form, and the sharpness of its angles, and the increased quantity of iron it contains, the metallic sand has been found more durable, and much cheaper than any other similar material at present in use.

From its chemical qualities it forms, in admixture with lime and common sand, a coment, mortar, or concrete, of flinty hardness, and almost entire incompressibility; and from its adhesive and impervious qualities, it completely and for ever excludes water. The more it is exposed to the atmosphere, and to wet and damp, the harder and more durable it becomes. In the formation of mortar and concrete, it has been extensively used in the great tunnels on the London and Birraingham Railway, in the foundations of the New Houses of Parliament, sea walls on the North Devon Railway, Clifton Reservoirs, and other works of importance.

importance.

Is an external stucco, the metallic sand cement is unaffected by frost or wet; in aprance it resembles the best Portland stone; requires, therefore, neither colour nor
ut, and is entirely free from vegetative cracks and blisters, to which Roman cement
lable.

mation will be given, and specimens shown, on application to Mr. C. K.
road-street; and at the Metallic Cement Wharf, King's Road (opposite
andom New Town, London.
ANALYSIS OF THE PATENT METALLIC SAND.

6

Copy of a Letter frees. "COLONEL HAWKER" (the seell-known author on "GUNS AND SHOOTING")

Longparish House, near Whitehurch, Hants, Oct. 21, 1846.

Siz, —I cannot resist informing you of the extraordinary effect that I have experienced by taking only a few of your LOZENGES. Lbad a cough, for several weeks, that defied all that had been prescribed for me; and yet 3 got completely rid of it by taking about half a small box of your Lozenges, which I find are the only ones that relieve the cough without deranging the stomach or digestive organs. —I am, Sir, your hamble servant.

To Mr. Kesting, &c., 79, St. Paul's Churchyard.

without duranging the stomach or digestive organs.—I am, sir, your numous servant. To Mr. Resting, &c., 79, St. Paul's Churchyard.

EATING'S COUGH LOZENGES are PATRONISED also by his Majosty the King of Prussia, his Majosty the King of Hanover, andmost of the Routier and Ciergy of the United Kingdom, and are especially recommended by the Faculty.

DEAR Six.—Having been, for a considerable time during the winter, afflicted with a violent cough, particularly at lying down in bed, which continued for several flours incoming, and after trying many medicines without the slightest effect. I was induced to try your Losenges; and, by taking about half a box of them, in leas than 24 hours, the cough natticly left me, and I have been perfectly free from it ever since.

9. Claremont-terrace, Pentonville,

1 am, dear Sir, yount, very reapentfully,
Feb. 17, 1848.

Mr. Kazarse.

(Late proprietor of the Casper Cofee-houe, St Paul's.)

Prepared and sold in house, is 14c, and time, 3a. 2d. 4s. 6d., and 10s. 6d. each, by T. Keating, chomics, &c., 3b. 7s. 2s. Paul's Champley of London; and rotall by all druggies and patest medicine venders in the kingdom.

NB.—To prevent spartous initiations please to shearers that the words "KEATING'S COUGH LOZENGES" are engraven on the Government samp of each box.

Notice.—These Losengta Authain no optum, or any preparation of that drug.

WHEAL CURTIS COPPER MINING COMPANY, in the PARISH OF CROWAN, NEAR CAMBORNE, CORNWALL.

In 6000 shares, of £4 each .- Deposit £1 10s. per sh

In 6000 shares, of £4 cach.—Deposit £1 18a. per share.

FROVISIONAL DIRECTORS.

GEORGE PILKINGTON, Esq., C.E., late Captain Boyal Engineers.

GEORGE EVANS, Esq., C.E., late Captain Boyal Engineers.

GOTHS TAPLET, Esq., Romerton.

(Other shareholdors will be shortly published.)

BANKERS—Messrs. Cauliffee, Brooks, Cuniffe, and Co.

SOLICITOR—Henry Bull, Esq.

This mine is in its infancy, the shaft being now only as-the depth of 47 fathoms below the adit; nevertheless, it has already produced upwards of £10,000 by its copper are, one-half, of which sum the late Mr. Thomas Teague, of Redruth, the calebrated mining captals, who worked this mine at his own individual cost, appears to have expended in carrying on the works, so that by reason of his decease the mine left in the hands of the executors was abandoned at the very point to which his hopes of wealth had been directed, and at a time when she was (according to Mr. Nicholas Virian's and Joseph Vivian's report, as printed in prospectively-very productive. They also say, "it is our decided opinion that a valuable and profitable finite will be found if prosecuted to decided opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if prosecuted to decide opinion that a valuable and profitable finite will be found if pros

and profitable majes will be found if prosecutes to desper serves. These generators with the profit of the profit

No call to be made herors the second and the calls to be made on the shares: this to be secured by registered deed of settlement, as well as law and equity can devise.

There are six fodes in this sett, each considered equal in value to that of the neighbouring mine, called the Wheal Abraham, which yielded £300,000. Therefore £1,800,000 may be taken from this mine by well-directed energy.

It is a well-known fact that shares in mines revearly opened under inferior prospects to those which Wheal Curris presents, were purchased at as low a price as those now offered to the public, and have since realised £000 and upwards per share; and such is the confidence of the committee in the capabilities of this saine that they have taken upon themselves to purchase at auction the splendid 70-inch engine of the Hallenbeagie Mine, its boilers, pumps, and other materials, by which £1000 as least have been saved to the company. They are also pushing forward the proposed works with vigour, the progress of which since the first prospectus is stated in the second one.

The business of the company will be under the control of a committee of shareholders, of whom three shall form a quorum, and subject to suck rules and regulations as may hereafter be determined. These to be selected from the sest applicants for the 3000 shares now to be issued; and, before taking office, they shall be assured of the correctness of the statements herein made.

The mine is taken with a lease of 21 years from Dec. 26, 1845; dues reduced to 1-18th. To prevent any suspicion of partiality in the alletting of the shares, each applicant of shares required, which, if not promptly paid into the bankers on the day prescribed in the said letter, will be granted to the next unsupplied applicant.

Reports of well-known mining captains will be found in prespectus, and any further information will be afforded at the offices, Gresham Roons, Basinghall-street, where specimens of the ore may be seen.

Applications for shares to be made, at the above offices, to

WHEAL CURTIS COPPER MINING COMPANY.—
FINANCIAL ANNOUNCEMENT.—The £4500 to be maked by the deposit on
the shares issued to the public will be applied to the purpo es specified in the detailed estimate published in second prospectus, without deduction for rent of offices, salaries, or allowances to directors, or other officers connected with the direction of the company they
having consented to sorge all claim to the same until the working of the mine shall exhibit a profit to the shareholders.

Shareholders bolding 200 shares will be invited to become directors in the company
under such provisions in the deed establishing it as will protect them from all responsibility beyond the amount of their shares, and a statement of receipts and payments will be
printed for circulation on the first day of every month, and given to every shareholder on
applications.

pplication.

The directors hold themselves as a responsible body, and abominate every thing like accreey towards shareholders in the transaction of their business, believing that such a ystem, however legal, is pregnant with danger to their own characters.

Application for shares to be made at the offices of George Plikington, Esq., the manging director, Gresham Rooms, Basinghall-street, addressed to 

B. Mill. S. Sec.

VICTORIA TIN MINING COMPANY
(Late the Wheal Fortune Consells and other Setts.)
ON THE COST-BOOK SYSTEM.
Capital 10,240 shares, of £2 each.—Deposit £1 per share.

Capital 10,240 shares, of 22 each.—Deposit £1 per share.

\*\*DORN HOLMES, Esq.\*\* CAPTAIN HAMILTON, J.P.

\*\*SAMUEL HOLDSWOIFTH, Esq.\*\* W. HOLMES, Esq.\*\*

\*\*LOCAL MANAOERS—Captain James Chynoweth; Mr. Thomas-Julian.

\*\*SIC Claude Scott, Bart, and Co., Cavendish-squares.

\*\*Commercial Bank of London, Lothbury, and Henrietta-street, Covent-Garden.

Sir Claude Scott, Bart, and Co., Cavendish-squares.

\*\*SIC Commercial Bank of London, Lothbury, and Henrietta-street, Covent-Garden.

Sir Claude Scott, Bart, and Co., Cavendish-squares.

\*\*SIC Claude Scott, Bart, and Co., Cavendish-squares.\*\*

\*\*The mines of this company are situated in the parish of St. Stephon's, Branwell, in Cornwall, on the border of the parish of St. Denis, and are held at 1-15th dies, for a term of 21 years. They company are situated in the parish of St. Stephon's, Branwell, in Cornwall, and are known to contain at least eight tin lodes, which have been partially worked, and found to be very productive. Some of the moderate outlay, under judicious superintendence, the mines will forthwith realise a liberal profit for the shareholders.

\*\*The reports of the company provide for the due registration and transfer of the shares, and that 21 days' notice shall be given of every call thereupon: no call for exceed 5s. per share, but it is believed no call beyond the deposit will have-to be be unade.

\*\*A general meeting of the proprietors will be held half-yearly, at which a full report of the company's affairs will be submitted by the directors to the m

Torember, 1846.

Applications for alartes may be addressed (until the 9th November, 1846), to the dectors, at the temporary offices of the company, I, Copthali Chambers, London, when rospectuses may be obtained.

By order, W. H. SMITH, Secretary.

VALENCIASLATE QUARRIES, situate in the Island of Valencia, on the south-west coast of Ireland, have been worked on a limited scale for a few years, during which time the superior quadity of the slate, and its peculiar-adaptation for sawing into slabs, have been fully established.

The demand for Valencia slabs has now, in fact, become regular and extensive.—Having great strongth, perfectly true surfaces, and not being affected by acids or grease, nor absorbing moisture, they have been found applicable to a vast variety of uses, and more particularly for factory floors, warehouses, granaries, maltings, stores, prisons, hepitals, ruilway stations, andforthe floors, warehouses, granaries, maltings, atores, prisons, hepitals, ruilway stations, andforthe floors, warehouses, granaries, maltings, atores, prisons, hepitals, ruilway stations, andforthe floors, warehouses, granaries and took of public buildings. The station at Birmingham is laid with Valencia sho, and they are used at the Model Prison, Pentonville, at the new Houses of Parliament, and at numerous other public buildings in London.

There is also a large ind increasing demand for Valencia slabs in the colonies, for color-drying floors, and for sugar-houses. For the purpose of more effectually attaining the enlarged scale of production required to meet the present great and still increasing demand, and of carrying out certain arrangements, whereby the cost of production will be greatly reduced, and the rate of profit increased, it is proposed to extend the capital embarked in the undertaking, and to convert the present propertorsally into a joint-stock company, to be constituted under a proper deed of settlement. The capital of this company to consist of 10,000 shares, of £10 each; £300 of these shares, constituting a paid-up capital of £25,000, to represent the capital already invested by the present proprietors in uncoverings, buildings, mills, machinery, and plant; the remaining 7500 shares to be issued at par to such parties as shall be approved of by the provisional committee.

Prospectuses, containing more full details, and showing the immediate and large returns to be obtained, and also forms of applications for shares, may be had at the offices of Messrs. Palmer and Nottleship, solicitors, 4, Trafalgar-square; and of Messrs. Field, Son, and Wood, stockbrokers, Warnford-court, Throgmorton-street.

18

AP-WELDED IRON TUBES FOR STEAM-BOILERS.

43. CAMBRIDGEST, BIRMINGHAM PATENT IRON TUBE COMPANY,
44. CAMBRIDGESTREET, BIRMINGHAM & SMETHWICK, STAYFORDSHIRE,
MANUFACTURE TUBES under an exclusive license from Mr. Richard Prosser, the patenteen. These tubes are now very extensively used in the boilers of marine and locomotive steam-engines in England and on the continent—are stronger, lighter, cheaper, and
more durable than leras or coppor tubes, and warranted not to open in the weld. They
may be fixed in the boilers without ferroles, and can be taken out and refixed without additional trouble or expense.—Address, 42, Cambridge-street, Creacent, Birmingham.

LONDON WAREHOUSE.

PATENT IMPROVEMENTS IN CHRONOMETERS.
WATCHES, AND CLOCKS.—E. J. DERT. 83, Strand, and 33, Cockapur-street,
watch and clock maker, BY APPOINTMENT, to the Quefn and his Royal Highness
Prince Albert, begs to sequaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842. Silver lever watches, iewelled in four holes, 6g s. coch; in gold cases, from
28 to 410 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. case
DENT'S PATENT DIFLEDOSCOPE, or meridian instrument, tanowready for felivery
Pamphlets containing a description and directions for its use is. each, but to customers grant

LA JAHOTTIERE IRON-WORKS (LOTRE INFERIEURE).

COMPAGNIE EN COMMANDITE.

Constituted by Acte de Société, passed before Mr. Duclouz, in Paris, July 4, 1845.

Established under the inspection of a committee of shareholders.

Capital 1,000,000 fr., or 240,000, in shares of 1000 fr., 500 fr., and 250 fr., or

240, 250, and 250 each.

Deposit 25 per cent. per share on allotment—the remainder by three instalments, at intervals of four months each.—Dividend to commence from the payment of less instalment, but 5 per cent. interest allowed on each instalment in the meanwhile.

COMMITTER OF INSPECTION.

BENJAMIN IFILI, Eq.,

CLEMENT TABOR, Eq.,

(WILLIAM NORRIS, Eq.,

(WITH power to add to their number.)

ABSPONSIBLE MANAGES.

(With power to add to their number.)

BENEVALE MURRAY, Esq., 28, Cornhill. | EUGENE DE PREZ, Esq., 28

BANKES—The Commercial Bank, Lothbury.

Solectron—William Tatham, Esq., 23, Throgmorfou-street.

The success which has attended the iron-works established by the campetit hestiore—the high price of iron in France, and the moderate cost at which the or making pig-iron, owing to the cheapmens and yield of the materials, which, they have secured—has induced the company to resolve on an immediate external way from, which, for many years to come, is likely to mercase in deniand mand high prices.

divery from, which, for many years and the process of time, to erect two more farmaces and the process. The company intend, without loss of time, to erect two more farmaces and ill, and iscrease the make is 8600 tens of pig-tron per annum. This extension the result of experience, and may be stated as follows:—

The company intended in the process of the process of

Cost of making one tow of foundry pig-fron at La Janottiere ..... Fr. 100, 05 £4 0 0 Selling price in France of one ten No. 1 foundry Pr. 196 to 220, or £7 15s. to 8 17 0 pig-fron .....

allaing nigh prices, as will be seen by me following extruct from the Anney System of 10th October last;—

"The iron monopoly is this country has muturally had the effect of sending up the shares in the iron establishments to an enormous price. The present price of the Decaseville shares is 3500 fr., which is sever three more than that at which they were issued. Other establishments have been yet more prolitable. That of Terre Moire, near \$1. Ethenne, for example, pays dividends equal to 75 or 76 per cent, on its original capital. Its shares are scarcely ever to be found in the market: but when by chance any de appear, there is great competition to obtain thou, and it is by no means unusual to see half shares sold at from 42,000 to 45,000 fr.
In England applications for prospectures and shares to be made to William Tatham, Esq., 22, Throgmorton-street; to R. Tredinnick, Three King's-court, Lomband-street; to the managers, or committee, under cover, to the committee of inspection.

DATENT GALVANISED IRON COMPANY.—At the Halfyearly General Meeting of the shareholders, held at the Louden Tswern, on my, the 20th October, the directors declared a directed of 3 per cent. for the halding 30th June, the same to be possible on and after the 16th Novamber sext. The undermentioned resolutions were also unanimously adopted — Resolved—That the report and accounts new submitted be received, approved, ared on the minutes.

Resolved—That the report and accounts now submitted be received, approved, and energed on the minutes.

Resolved—That John Folliott Powell, Eq., be elected a director of this company.

Resolved—That Mancel Joanum Scares, Eaq., be elected a director of this company.

Resolved—That a further call of £1 per share be made on the new capital of the consent, created £8th October, 1845; and that the same be payable on 18th January next.

Resolved—That the thank of this meeting be presented to the directors for the disposal of the larges in the new capital of the company yet unappropriated, as they may think best.

Resolved—That the thanks of this meeting be presented to the directors for the ability with which they have conducted the company's affairs.

Resolved—That the thanks of this meeting be given to Mr. Mathews for the valuable soft that the thanks of this meeting be given to Mr. Mathews for the valuable softstance he has rendered the company's managers:

Resolved—That the thanks of the meeting be given to the suditors, the Rev. Professor full, and D. R. M'Nab, Eq., for their services.

Resolved—That the thank of the meeting be given to the chairman for his able onduct in the chair this day.

3. Manuto—House-place, London.

AMHEROOE WHEAL MARIA MINING COMPANY .-At a Meeting of adventurers, held, pursuant to circular, at the offices of the se 4, King-street, Cheapside, on Thursday, the 5th Nov., 1846, being one of the pa-mentings under the Cost-book System.

JOHN EDWARDS, Essp., In the chair.

The minutes of the proceedings of the committee, since the last meeting, were read, also he circular convening the present meeting.

Mr. Chorra (the secretary) having read the report, the accounts were submitted to the neeting.—A list of the arrears—the total amount being £813 5s.—was then read.

Whereapon it was resolved unanimously, that the following resolutions be adopted:—
Whereapon it was resolved unanimously, that the following resolutions be adopted:—
That the report of the finance committee, embodying the report of Capt. Table, with the counts now read, be received, approved, and entured on the minutes.

Moved by Mr. Addis, and seconded by Mr. Small,
Moved by Mr. Addis, and seconded by Mr. Small,
That the finance committee be recommended to appoint a period for the payment of the clean previously made, so as to meet the forthcoming expenditure, and provide for the laddition of the commany.

accounts now read, be received, approved, and entures on the montes.

Moved by Mr. Addis, and accorded by Mr. Smith.

That the finance committee be recommended to appoint a period for the paym.

£1 call previously made, so as to meet the forthcoming expenditure, and provided interest of the company.

Moved by Mr. Dunnage, and seconded by Mr. Owden,

That, with the view of expressing the sense of the meeting of the necessity of such call, the same be made payable in two instalments, of the necessity of such call, the same be made payable in two instalments, of the necessity of such call, the same be made payable in two instalments, of the necessity of such call, the same be made payable in two instalments, of the necessity of such call, the same be made payable in two instalments of the care in the finance, for their labour, and the attention they have devoted to the aftairs of pany, and that they be re-elected.

JOHN EDWARDS, Cha.

It was then moved, seconded, and carried unanimously.

That the cordial thanks of this meeting are due, and are hereby given, to the cord of the services rendered by him, and the lucid explanations affected in the the proceedings.

PAMAR SILVER-LEAD MINING COMPANY .- At the

TAMAR SILVER-LEAD MINFNG COMPANY.—At the Annual General Meeting of shareholders, beld at the offices of the company, 44, Finsbury-square, on Friday, the 23d Oct., 1846, pursuant to advertisement, J. GROUT. Esq., in the chair.

The advertisement convening the meeting was read from the columns of the Mining Journal? The report of the directors, with those of P. N. Johnson, Esq., and Captain Sprague; the resident agent at the mine—as also the accounts for the past 12 massins, and balance-sheet—were submitted to the meeting, whereupon it was—Moved by James Smith, Esq., and accounded by M. D. Lindo, Esq., That the report and accounts now presented to the meeting be received, adopted, and entered in the minute-book of the company.—Carried manifronsily.

That the cordial thanks of the meeting be given to the chairman and board of directors, for the services rendered by them, and the sast manifested in promoting the interests of the preprietors.—Carried manifmonaly.

Moved by Richard James, Esq., and seconded by M. D. Lindo, Esq.,
That the thanks of the meeting he are due, and here hereby given, to Capt. James Sprague, for the lucid explanation afforded by him to the meeting this day, and more especially for his general services as agent of the company, in prosecuting the operations of the mine.

44, Finsbury-square, Oct. 23, 1846.

J. GROUT, Chairman.

AM ERON'S COALBROOK STEAM COAL AND;
SWANSEA AND LOUGHOR RAILWAY COMPANY.
At a Special Meeting of the proprietors, or shareholders, in Cameron's Coalbrook Steam.
Coal and Swanses and Loughor Railway Company, held pursuant to advertisement, at the
offices of the company, No. 3, Moorgare-street, Londens, as Wodenseday, the 14th day of
October, 1466.

JACOB MONTEFIORE, Esq., in the chair.
The advertisement convening the meeting having been read, the report of the disselers.
was read and a statement submitted by the solicitor of the company; whereupon, it was
Resolved unanimously.—

Resolved unanimously,—
That the report submitted by the directors, and the recommendations therein contains be received and adopted, and that the same be entered upon the minutes of the compass Resolved unanimously,—
That the directors be instructed to have the book, called the "Register of Shaashalder authenticated, by the common seal of the company being affixed thereto, in terms of the oction of the Act 8 Vkc, cap. 16.

Resolved unanimously.

That N. P. Cameron, Esq.
W. B. J. P. Cameron, Esq.
Jacob Monteflore, Esq.
Be elected directors of Cameron's Coalbrook Steam Coal and Swansea and Loughor RailResolved programmer.

Resolved unanimously,—
That Wn. Wellington Cooper, Esq., and Thomas Strelley, Esq., be elected auditors of
the company.
Resolved unanimously,—
That the thanks of the shareholders are due, and are hereby given, to the chairman,
for his able conduct in the chair this day, and the lucid statements of the affairs of the
company submitted to the meeting.

A. C. HOWDEN, Secretary.

2, Moorgate-street, Oct. 14, 1846.

2. Moorgate-street, Oct. 14, 1846.

PATENT KAMPTULICON (or ELASTIC MATERIAL)
COMPANY.—OPPICES, 18, CORNHILL.—ESTABLISHED 1843.
An Extraordinary or Special General Meeting of the proprietors of this company was held on Monday, the 26th Inst., agreeably with the 12th clause in their rules and regulations, to receive the report of a committee appointed to examine into the present state and prospects of the company, and to amend such rules as they might deem advands.

WILLIAM G. OLARISON, Eag. in the chair.
The Secretary C. G. Greville, Esg.) having read the advertisements alibing the industry.

In that the report and statement of accounts (as anditied) for the last harryest as expressed unanimously:—

1. That the report of the committee for inquiring into the present state and prospects of the company be approved and confirmed.

2. That the report of the committee for inquiring into the present state and prospects of the company be approved and confirmed.

3. That a board of directors, consisting of not less than five, or exceeding seven, be now appointed.

4. That the directors be empowered to apply to Parisarsent for an Act of incorporation. A vote of thanks to the chairman, W. G. Glarkson, Esq., for his able escadued in the chair, and a vote of thanks and confidence to Mr. Walter, the managing director, were unanimously carried, and the meeting separated.

P. G. GEEVILLE, Serviary.

London: Printed and Published, weekly, by Hewat Ewather, at the Off No. 20, FLEET-STREET, in the city of London, where all Communications and Advertisements are re-reported andreased to "the Editor"—post-poid. Sycomber 7